MODEL:RSC-1650LS
RSC-1650LSH

ROLL LAMINATOR

Service Manual

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1. Safety Precautions

Failure to comply any of the following safety procedures could result in serious injury. Please read the instructions carefully and keep for future reference.

1. Only a licensed electrician should install wiring and outlet for the laminator.
2. Ensure the unit is plugged into a properly grounded outlet with the correct voltage.
3. Keep hands and clothing (ie.Neckties) away from the rollers. The rollers have pinch points that can trap body parts or clothing and cause serious injury.
4. Keep flammable and wet objects away from the machine.
5. Place machine on a level surface.
6. Avoid excessive sunlight, humidity and extreme temperatures.
7. Ensure the unit is turned off, cooled, and unplugged from the outlet prior to moving and/or repairing.
8. Keep out of reach of children.
9. Only Royal Sovereign authorized maintenance and service technicians should make repairs.
10. Do not attempt to laminate items that exceed total recommended material thickness for the unit.
11. When cleaning the machine, don't use flammable sprays or materials.
12. Do not touch the rollers when they are hot or place foreign objects inside the machine.
13. Do not cover the surface of the machine until the machine has completely cooled.

2. Troubleshooting

2.1 Rollers Not Heating (RSC-1650LSH Only)

CAUSES

1. Disconnected Heater Wire.
2. Defective T/Fuse.
3. Defective Bi-metal.
4. Defective Heater Assembly.
5. Defective Main PCB.

MEASURES

NOTE: Below steps require you to disassemble the Right, Left, and/or Rear Covers. (Refer to the "Replacing Parts" section) Follow the below steps in order.

1. Disconnected Heater Wire.

a) Check to make sure that the heater wire is connect to the Main PCB. Figure 1

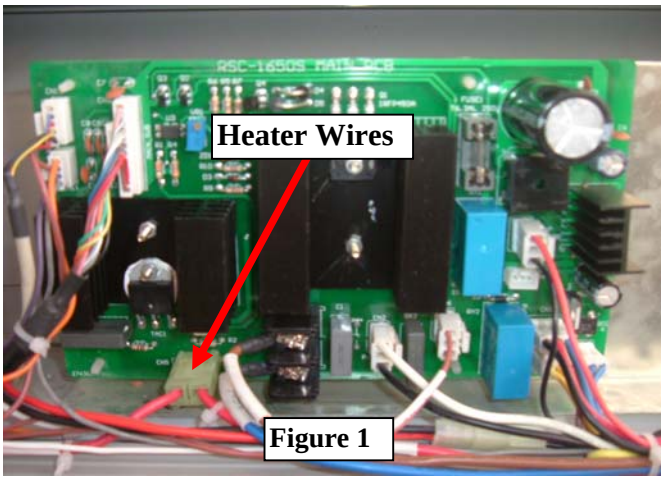


Figure 1

2. Defective T/Fuse.

a) Use the multi-tester to check the continuity on the "Wire-T/Fuse". If it fails replace the Wire-T/Fuse. Figure 2

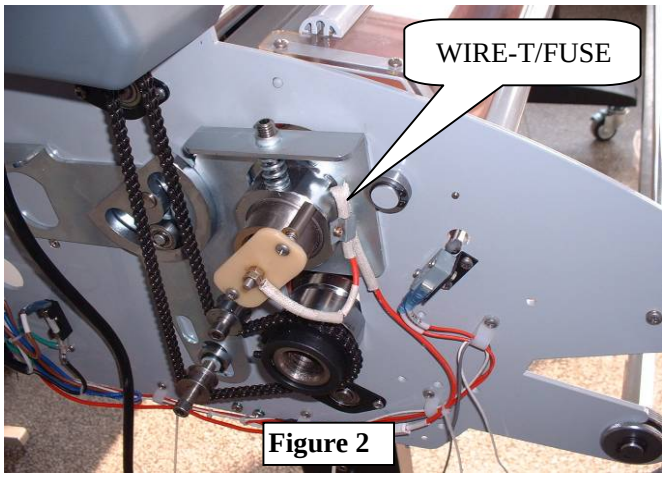


Figure 2

3. The Bi-metal is defective.

a) Use the multi-tester to test the continuity on the "Bi-Metal". If it fails replace it with a new one. Figure 3

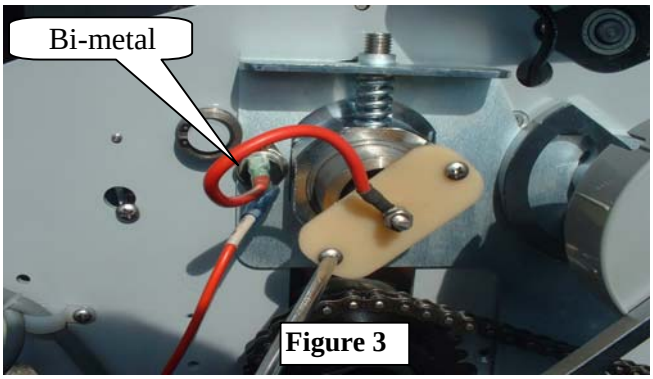


Figure 3

4. The heater in the roller is defective.

a) Use a multi-tester to test the continuity on the "Heater Assembly". If it fails replace the Heater Assembly. Figure 4

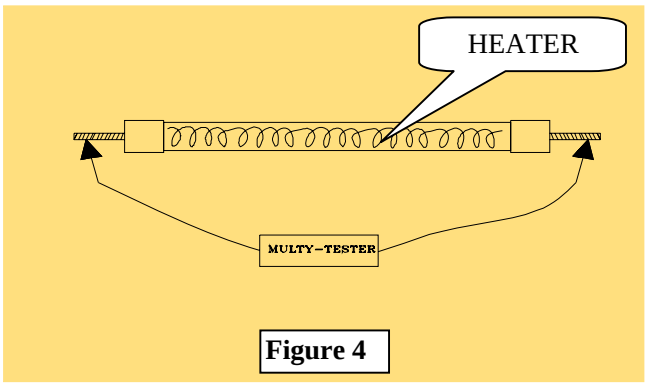


Figure 4

5. Main PCB is defective

a) Replace Main PCB.

2.2) Rollers Over Heating (RSC-1650LSH Only)

CAUSES

1. The temperature sensor wire is improperly connected to the SUB-PCB.
2. Defective Heater Assembly
3. Main PCB is defective

MEASURES

1. If the temperature sensor wire is improperly connected to the SUB-PCB.

a) Unplug the temperature sensor wire and reconnect it properly. Figure 1

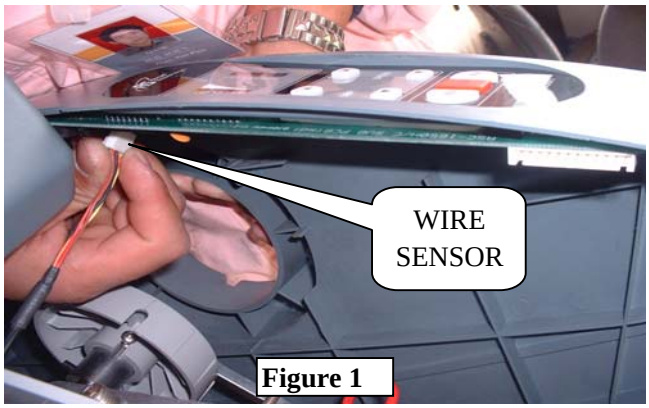


Figure 1

2. Defective Heater Assembly

a) Replace the broken Heater Assembly. Figure 2

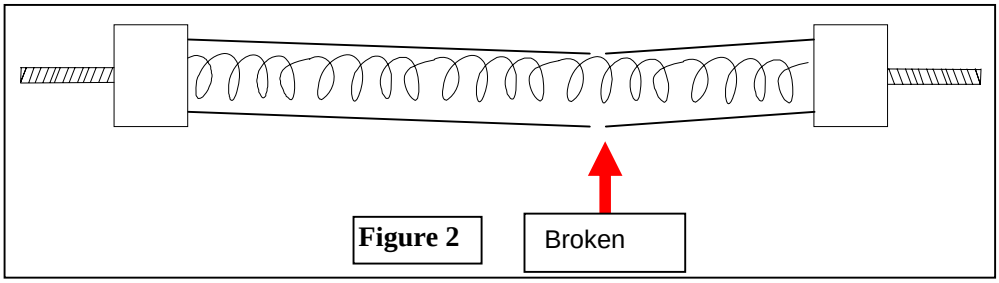


Figure 2

3. Main PCB is defective

a) Replace Main PCB.

2.3) Rollers Not Running

CAUSES

1. **Emergency Switches are Active.**
2. **Pressure Plate is not in Proper Position.**
3. **Film is Jammed on the Rollers.**
4. **Main Motor Wires are Disconnected.**
5. **Defective Main PCB.**
6. **Defective Main Motor.**

MEASURES

1. Emergency Switch is (are) Active.

a) Deactivate front and rear emergency switches.

2. Pressure Plate is not in Proper Position.

a) Ensure that the Pressure Plate is in the proper position and the Pressure Plate switch is active. Figure 1

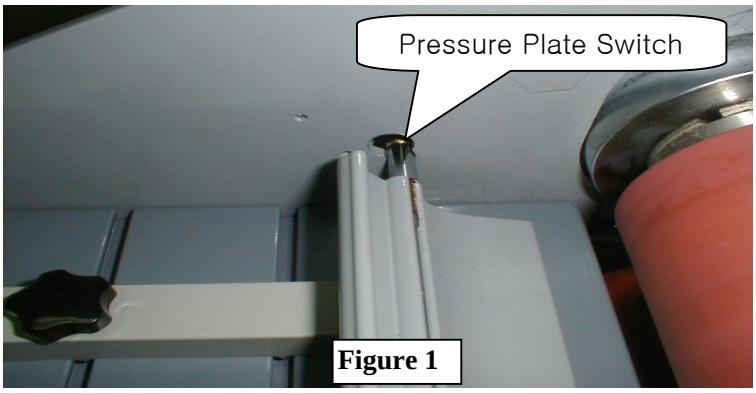


Figure 1

3. Film is Jammed on the Rollers.

a) Carefully un-jam the film from the rollers.

4. Main Motor Wires are Disconnected.

a) Ensure that the wire is connected properly. Figure 2

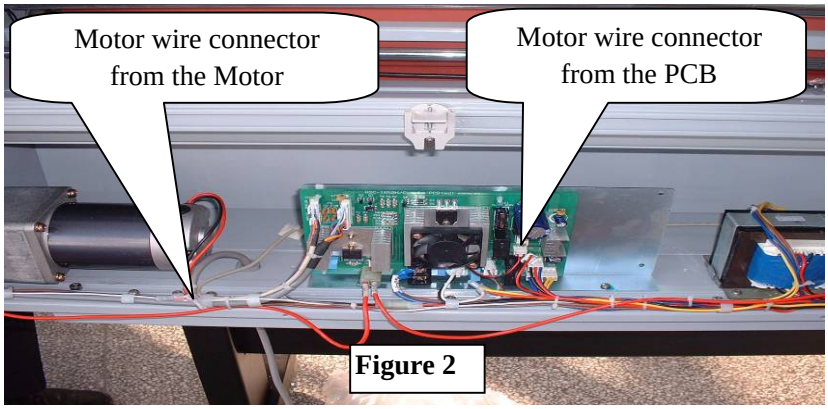


Figure 2

5. Defective Main PCB.

a) Replace the Main PCB.

6. Defective Main Motor.

a) Replace the Main Motor.

2.4) No Main Power

CAUSES

1. Main Power is Not Turned On.
2. No Power from the Outlet.
3. Defective Main Fuse.
4. Control Panel (Sub-PCB) Wire is Not Connected.
5. Disconnected Main Power Wire.
6. Defective Transformer.

MEASURES

1. Main Power is Not Turned On.

a) Turn on the power switch which is located on the rear left.

2. No Power from the Outlet.

a) Ensure there is power on the outlet - check the circuit breaker.

3. Defective Main Fuse.

a) Using Multi-Meter test the continuity of the Main Fuse. If it fails, replace it. Figure 1

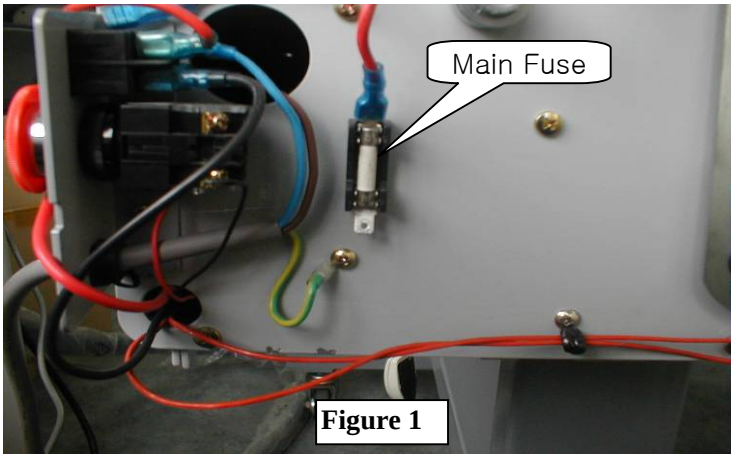


Figure 1

4. Control Panel (Sub-PCB) Wire is Not Connected.

a) Ensure that the control wires are connected to the Control Panel (Sub-PCB).

5. Disconnected Main Power Wire.

a) Connect the Main Power wires. Figure 2

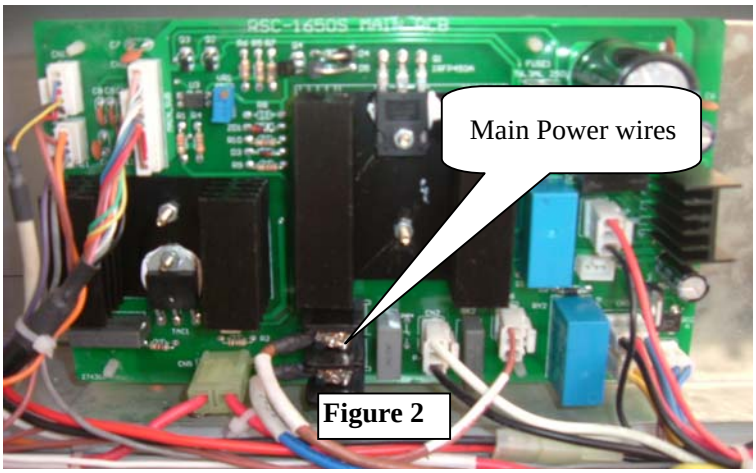


Figure 2

6. Defective Transformer.

a) Replace the Transformer. Figure 3

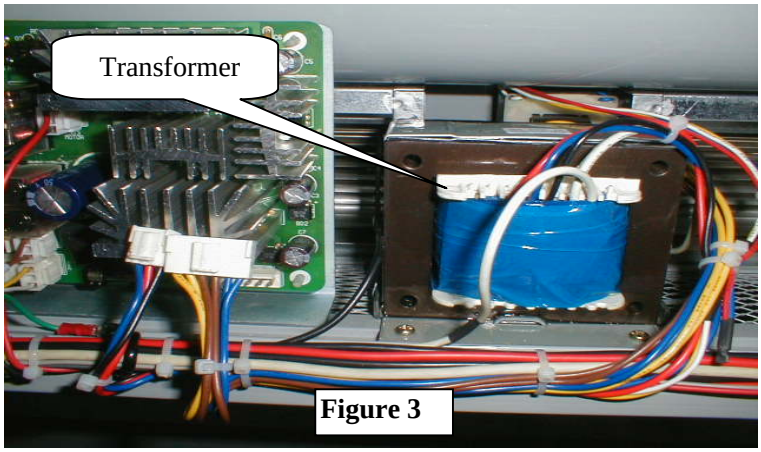


Figure 3

3. Replacing Parts

NOTE : Before replacing any parts, ensure that the machine is turned off and unplugged from the outlet.

3.1 Right Cover

1. Using Philips Screw Driver, loosen the screw on the Pressure Lever. Figure 1

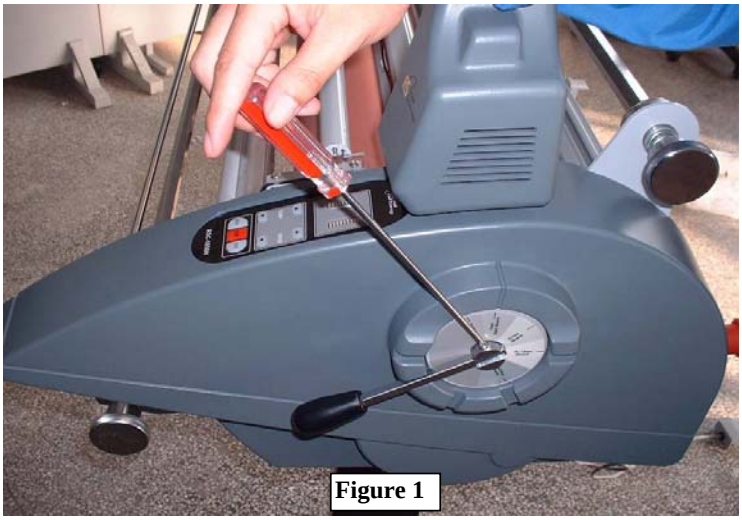


Figure 1

2. Take out the four screws as shown in Figure 2.

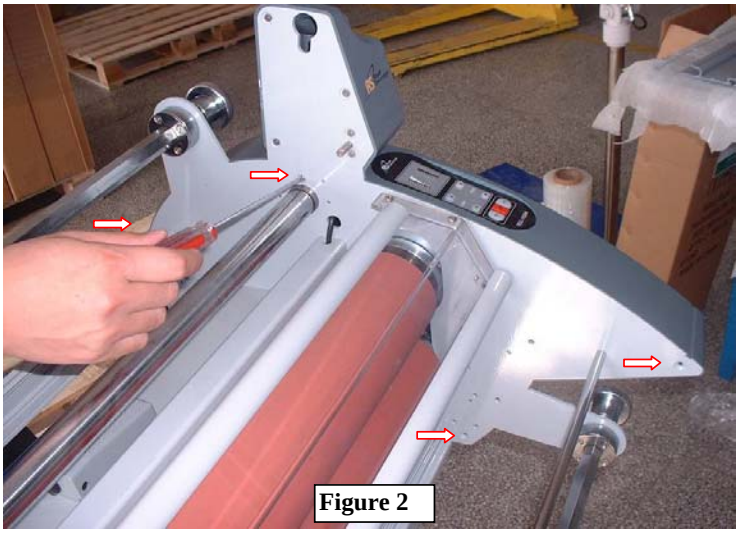


Figure 2

3. Disconnect the temperature sensor (RSC-1650LSH only) and control wires from the Sub-PCB. Figure 3

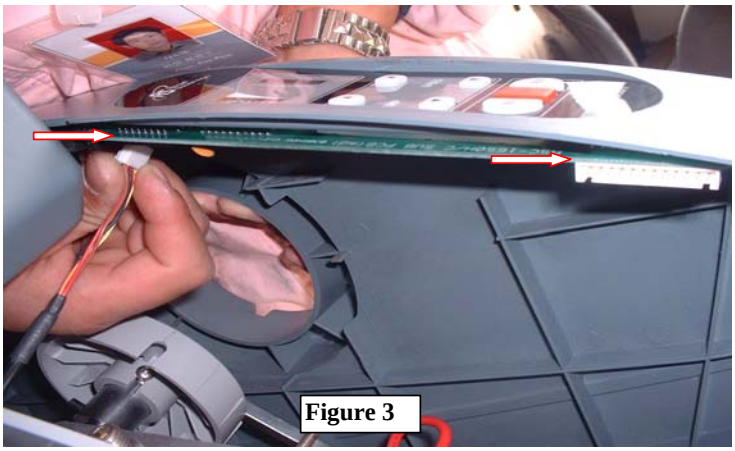


Figure 3

4. Take out two Sub-PCB screws. Figure 4

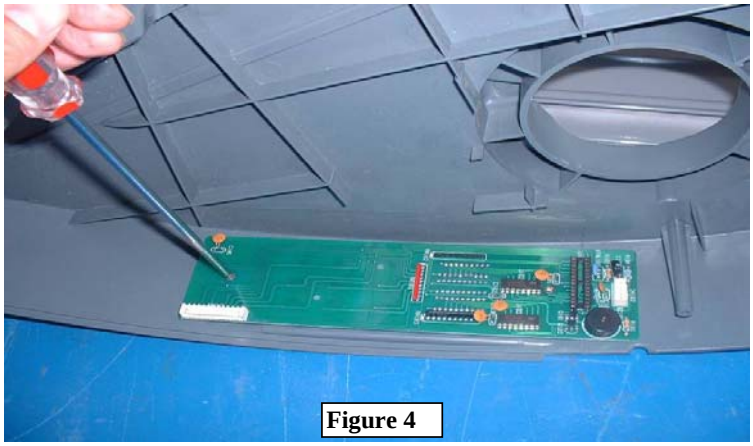


Figure 4

5) Repeat the steps in reverse to assemble the Right Cover.

3.2 Left Cover

1. Take out four screws on the Left Cover.

3.3 Rear Cover

1. Disassemble the Left and Right Covers.

2. Take out the side screws - one on each side. Figure 5

3. Loosen eight Rear Cover screws. Figure 5

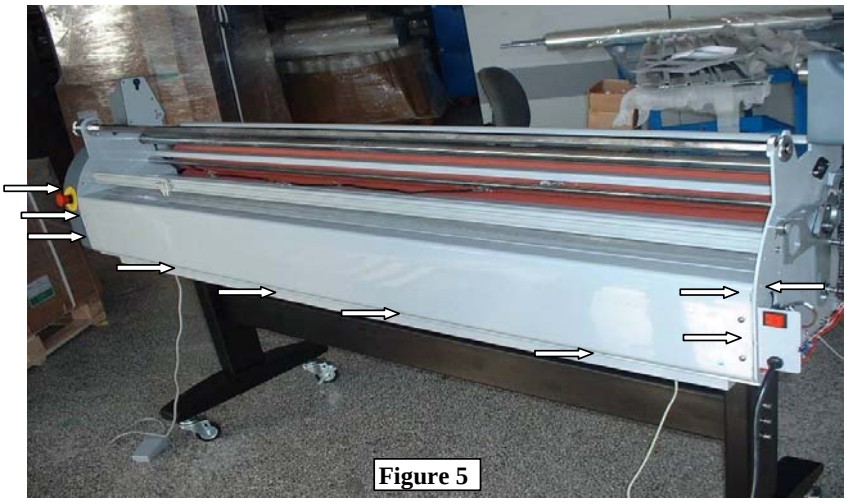


Figure 5

3.4 Main PCB

1. Pull out all the connectors from the main PCB. Figure 6

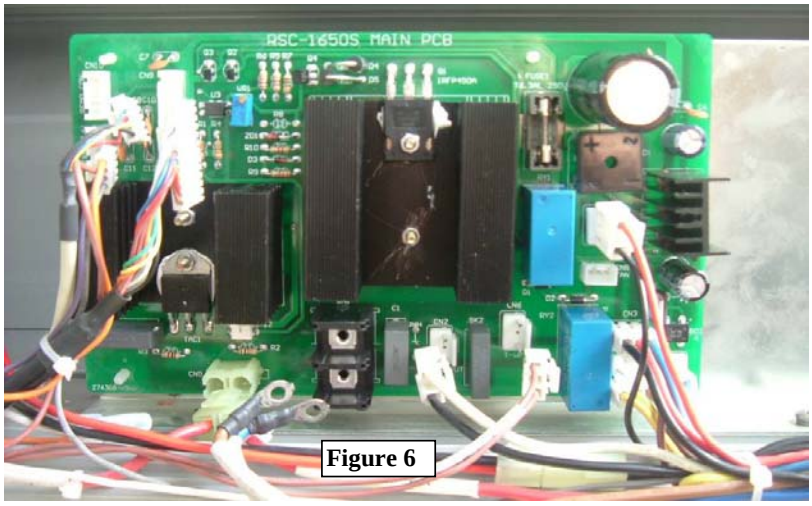


Figure 6

2. Detach the main PCB from the 4 white plastic supporters. Figure 7

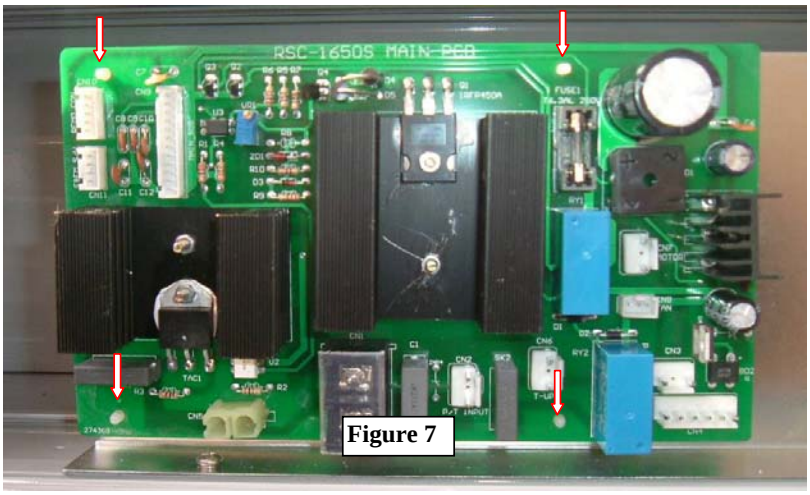


Figure 7

3.5 Sub PCB

1. Follow the same steps as in the "Replacing the Right Cover" section.

3.6 Heaters (RSC-1650LSH Only)

1. Take off the Left and Right Covers.
2. Using pliers (one to hold and one to loosen the nut) as shown in Figure 8, take out the two 5/16 (8mm) nuts on each side.

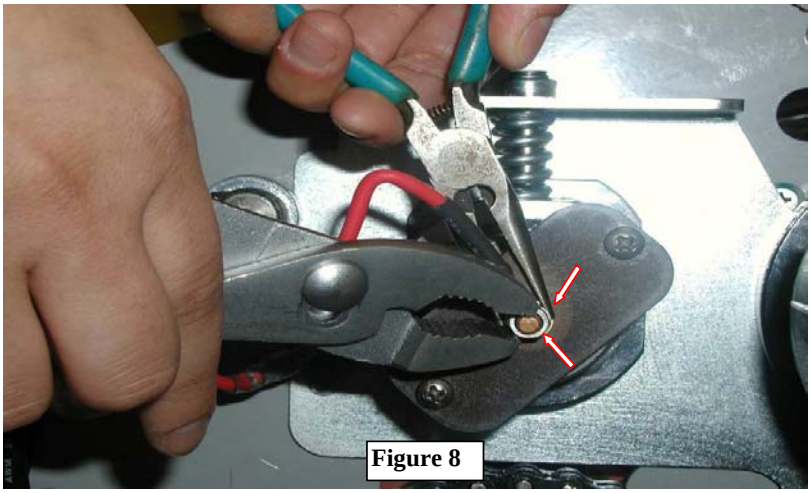


Figure 8

3. Take out two screws and disassemble the upper heater bracket on each side. Figure 9

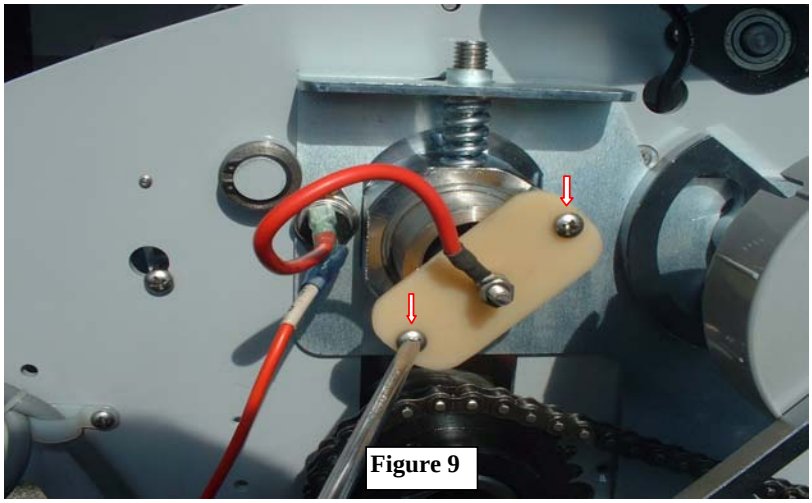


Figure 9

4. Carefully take out the heater from the roller. Figure 10

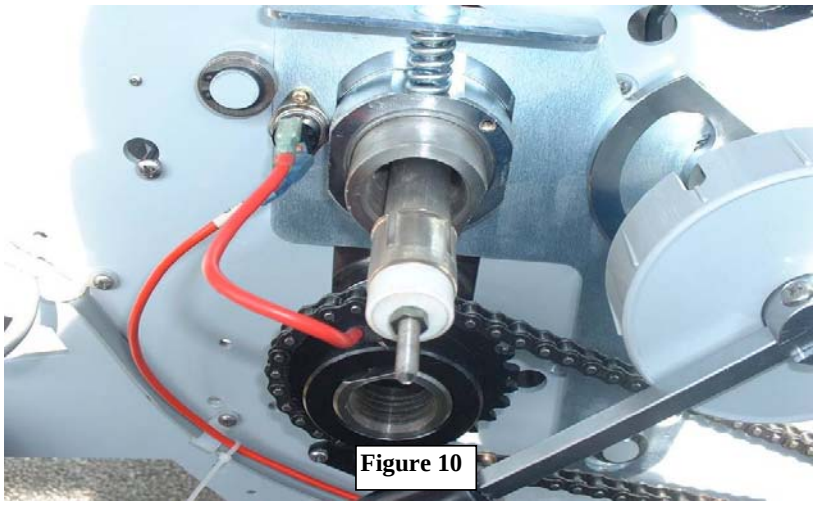


Figure 10

*** When inserting the heater into the roller, rotate the heater slightly and the heater will enter the roller smoothly.**

3.7 Cross Cutter

1. Disassemble the nut from the frame-cutter.

2. Unfasten the spring from the cutter .

3. Change the cutter-knob.

4. Adjustments

4.1 Adjusting Take-Up Shaft Speed

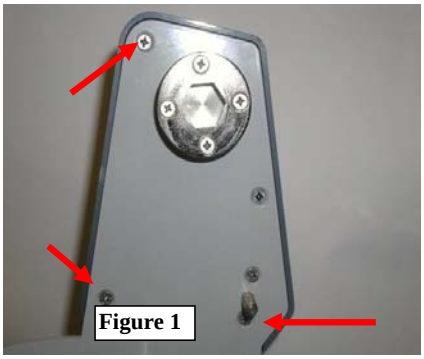
CAUSES:

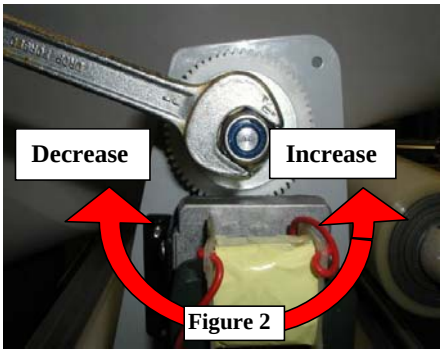
1. Main rollers and Take-Up Shaft speed is not synchronized.

MEASURES:

1. Take out the Take-Up Shaft Cover by loosing three screws. Figure 1

2. Use a 11/16" (17mm) wrench to loosen (increases speed) or tighten (reduces speed) the bolt. Figure 2





4.2 Adjusting Front Roller

Pressure

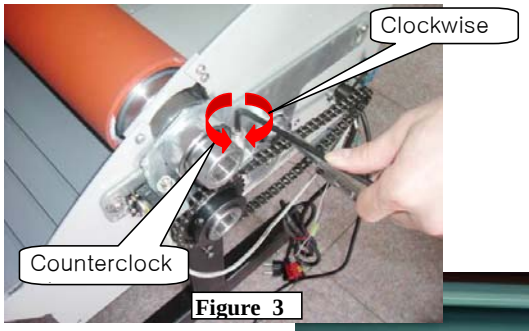
• ***Use 5/16" or 8mm Allen wrench*** **to adjust the roller pressure:**
Clockwise – Increase pressure.
Counter Clockwise – Decrease pressure.
(Figure 3)

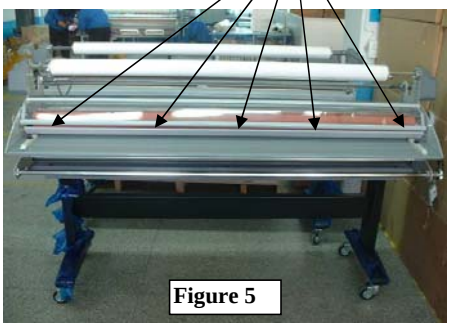
1. ***Using Push-Pull Scale*** , measure 5 spots as shown on Figure 4 & 5: Front roller should read between 2-3 on the gauge

2. ***Checking for over all tension*** – when the machine is running, check that the top and the bottom films are fed in without any wrinkles.

3. Laminating Test – Laminate samples with different thickness of substrates.

4. Check above steps 2 through 3 with 1.5mil & 5mil films.





5. Installation of Options

Note: Below options are to be installed by an authorized RS reseller.

Installation of the Front Feeder Option (Includes 2 brackets, one spindle, and mounting hardware).

1. Install the Front Feeder to the inside of the front frames using four 9/16" hexagon bolts on each side (Figure 1).

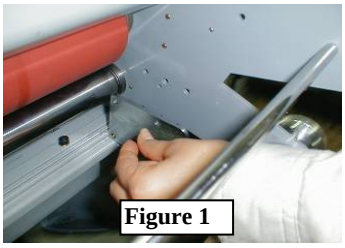


Figure 1

Installing the Rear Rewinder Option (Includes motorized winder, bracket, one spindle, and mounting hardware).

1. Remove the left and right covers by using a Phillips screwdriver (four screws on each side cover) (Figures 1 & 2).

Figure 1

Figure 2

2. Remove the lever knob screw and lever (Figure 3).

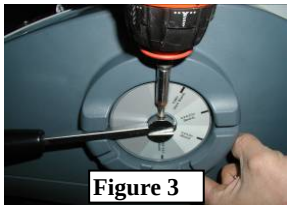


Figure 3

3. Remove the rear cover by removing all 10 screws (4 top, 4 bottom, and 1 on each side) (Figure 4 & 5).

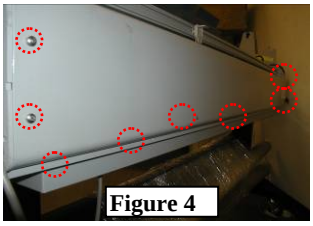


Figure 4

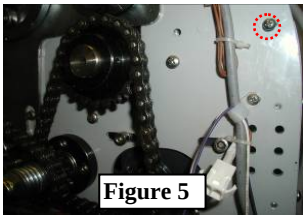


Figure 5

4. Disassemble the power switch bracket and place the left rewinder (included in the option kit). Then, reinstall the power switch bracket (Figure 6).

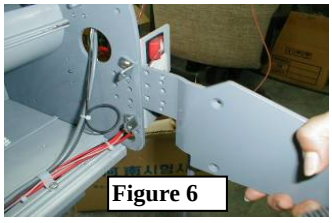


Figure 6

5. Install the right rewinder on the outside of the frame and connect the motor wire to the rear wire (Figures 7 & 8).
6. Reinstall the rear cover.
7. Reinstall the side covers.
8. Reinstall the lever knob and screw.

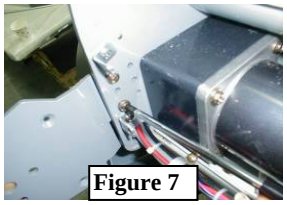


Figure 7

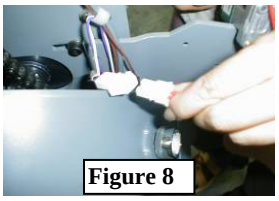


Figure 8

6. Parts List

6.1 RSC-1650LS Parts List

RSC-1650LS

No.	Part No.	Part Name	Spec.	Qt'y
1	13500X005A	CASTER-STAND1	2″	2
2	13500X006A	CASTER-STAND2	2″	2
3	WSB13038D2	WASHER-SPRING	SWRH Φ13.2*3.8T	4
4	212LR1012A	STAND-FRAME	SPCC	2
5	BHE08015D2	BOLT	M8*15	8
6	212LR1011A	STAND-CENTER	SPCC	1
7	WSB08016D2	WASHER-SPRING	SUS27	12
8	BHE08065D2	BOLT	M8*65	7
9	365LR4004A	SWITCH-FOOT ASS'Y		1
10	23300X008A	CABLE GRAND		2
11	013LR2118A	FRAME-BASE	SPCC	1
12	34000S010A	POWER-TRANSFORMER	AC220V-230V 50/60Hz	1
13	MBC04008D2	SCREW-BH	M4*8 SUS27	22
14	013LR3002Q	FRAME-CUTTER	AL6063	1
15	WSB05013D2	WASHER-SPRING	5.1*1.3T	26
16	MBC05018D2	SCREW-BH	M5*18 SUS27	2
17	350LR3038A	PCB-MAIN ASS'Y		1
18	23200X001A	SUPPORT-BRACKET PCB	NYLON	4
19	21000S029A	MOTOR-MAIN	36V 60W 75:1	1
20	014LR1003B	TABLE-FRONT	AL6063	1
21	TFH04018D2	SCREW-FH	M4*18	16
22	381LR4009A	WIRE-TAKE UP		1
23	122LR4008A	BUSH-ROLLER LAMI,LO	S45C	2
24	12200X043A	DU-BUSH	40*35	4
25	013LR2116D	FRAME-FRONT	SPCC	1
26	122LR4100A	BUSH-ROLLER,LAMI UP	S45C	2
27	133LR2030A	ROLLER-LAMI		2
28	120LR3035D	SHAFT-CAM	S45C	1
29	120LR4002B	SHAFT-TAKE UP	S45C	1
30	MFC04008D2	SCREW-FH	M4*8 SUS27	8
31	021LR3006A	BRACKET-CLAMPER LEVER	ABS	1
32	140LR4037A	HOLDER-SHAFT,T	S45C	1
33	147LR4002A	PAD-TENSION	LEATHER	1
34	12200X022A	BEARING-RADIAL	NTB	4
35	WPB15010D2	WASHER-PLAIN	15.5*18*1.0T	2
36	138LR4002A	SPRING-TENSION	Φ3.8	2
37	032LR4020A	SHEET-PRESSURE	PC 0.3T	1
38	SKE04010B6	SCREW-SET	M4*10 FZB	1
39	SKE04015B6	SCREW-SET	M4*15 FZB	1
40	12200X004A	DU BUSH	10*10	1
41	WPB05030H8	WASHER-PLAIN	11.8*5*3T	1
42	RIV05013E8	BRINDER-RIVET	AL	1
43	013LR2117D	FRAME-MIDDLE	SPCC	1
44	380LR4001A	POWER-CORD EU	AC230 16A	1
44-1	380CR4007A	POWER-CORD UK	AC240V 13A	1
44-2	380CR4004A	POWER-CORD CUL	AC125V 15A	1

No.	Part No.	Part Name	Spec.	Qt'y
45	381LR4013B	WIRE-POWER S/W,EU		1
46	381LR4020B	WIRE-FUSE,EU		1
47	381LR4083A	WIRE-EMER/MOTOR		1
48	381LR4008A	WIRE-MAIN		1
49	136LR4004D	CHAIN-ROLLER	64EA 35#	1
50	013LR2111A	FRAME-L	SPCC	1
51	12200X032A	DU-BUSH	12*10	2
52	122LR4004A	BUSH-PLATE PRESSURE		1
53	WSB04010D2	WASHER-SPRING	4.1*1.0T	68
54	141LR2038A	PLATE-PRESSURE,L	SPCC	1
55	141LR3041A	PLATE-PRESSURE,LAMI	SPCC	2
56	138LR4008A	SPRING-PRESSURE	SWRH	4
57	WPB06015D2	WASHER-PLAIN	6.5*15*1.5T	10
58	BHE06050D2	BOLT	M6*50	4
59	124LR4019A	ECCENTRIC-CAM	S45C	2
60	SKE05015B6	SCREW-SET	M5*15 FZB	26
61	MPC03014D2	SCREW-PH	M3*14	4
62	31300S006A	SAFETY-SENSOR		1
63	141LR4114A	BRACKET-SENSOR	SECC 1.2T	2
64	WSB03007D2	WASHER-SPRING	3.1*0.7T	4
65	MBC03006D2	SCREW-BH	M3*6 SUS27	5
66	MBC05010D2	SCREW-BH	M5*10	6
67	RC001500C8	SNAP RING	STW-15 WON IL	1
68	36400X018A	SWITCH-EMERGENCY		2
69	021LR2001A	COVER-L	ABS	1
70	013LR2112A	FRAME-R	SPCC 4.5T	1
71	131LR4005A	SPROCKET-ROLLER,LAMI	S45C	1
72	131CR4001A	SPROCKET,ROLLER,LEFT	S45C	1
73	SKE06010B6	SCREW-SET	M6*10 FZB	1
74	32500X0011	FUSE-MAIN	AC250V 5A	1
75	36600X001A	FUSE-BLOCK		1
76	WSB06015D2	WASHER-SPRING		12
77	BHE06020D2	BOLT	SUS27	12
78	131LR4004B	SPROCKET-MOTOR	S45C	1
79	RE001000C8	E-RING	ETW-10 WON IL	1
80	134LR4001A	PULLY-CHAIN	S45C	3
81	141LR2039A	PLATE-PRESSURE,R	SPCC	1
82	032LR3006A	SHEET-FUNC	PC 0.75T	1
83	021LR2003B	COVER-TAKE UP,L	ABS	1
84	021LR2002B	COVER-R	ABS	1
85	112004001D	NUT	M6*1.25 SUS27	4
86	MBC04018D2	SCREW-BH	M4*18 SUS27	3
87	SKE05010B6	SCREW-SET	M5*10	4
88	125LR4003A	LEVER-PRESSURE	S45C	1
89	023LR4010A	KNOB-LEVER	NYLON	1
90	350LR3039A	PCB-SUB ASS'Y		1
91	023LR3008A	BUTTON-FUNC	SILICON KE-9X1	1
92	TPH03006B8	SCREW-TAP TITE PH	M3*6 SUS27	2
93	011LR2003A	COVER-REAR	AL6063	1
94	23300X001A	BUSHING-CORD,EU		1

No.	Part No.	Part Name	Spec.	Qt'y
95	36400X002B	SWITCH-MAIN		1
96	MBC04025D2	SCREW-BH	M4*25	36
97	141LR4069A	2"FILM CORE SUPPORT PLATE	SPCC	12
98	021LR3008A	2"FILM CORE COVER	ABS	12
99	013LR3022A	2"FILM CORE HOUSING	AL6063	6
100	147CR4003A	SILICON RUBBER	SILICON	12
101	MBC05030D2	SCREW-BH	M5*30 SUS27	36
102	141LR4070A	3'FILM CORE SUPPORT PLATE	SPCC	12
103	021LR3009A	3"FILM CORE COVER	ABS	12
104	013LR3023A	3"FILM CORER HOUSING	AL6063	6
105	141LR4050A	PLATE-BEARING	SECC 2T ZWP5	2
106	051LR4007A	LABEL-EMER2		2
107	145LR3001A	GUIDE-DOCUMENT	ABS	2
108	023LR4002A	KNOB-BOLT GUIDE	PHENOL BLK	2
109	111LR4006A	BOLT-GUIDE	S45C	2
110	141LR4113A	BRACKET-BASE	EGI	2
111	141LR4115A	PLATE-SENSOR		2
112	140CR4001B	HOLDER-TAKE UP 2	S45C Cu+Ni+Cr	1
113	130CR4001B	GEAR-MIDDLE	S45C	1
114	122LR4006B	BUSH-PULLY	S45C	3
115	RC000800C8	SNAP RING	STW-8 WON IL	1
116	136LR4001H	CHAIN	#25 156E	1
117	032LR4008A	SHEET-CUTTER	PC 0.18T	1
118	130CR4002A	SPROCKET-TAKE UP	S45C	1
119	147LR4009A	PAD-TAKE UP	NBR	1
120	141LR4006A	PLATE-SLIP	SPCC 2.0T	1
121	125LR4001A	HANDLE-TENSION	S45C	2
122	140LR4036A	HOLDER-SHAFT,FILM	S45C	2
123	120LR3004B	SHAFT FILM,LO	S45C	2
124	015LR3008B	BAR-IDLE,UP	S45C	2
125	12200X009A	DU-BUSH	FLANGE 15*20	2
126	143LR3001A	SUPPORT-SHAFT,LO	S45C	2
127	WPB08016D2	WASHER-PLAIN	8.5*25*1.6T	1
128	147LR4019A	RUBBER-SPONGE	36*36*2T	1
129	112004001C	NUT	M10*1.25	1
130	141LR4009A	BRACKET-REAR COVER	SEC 2.0T	4
131	147LR4002A	PAD-TENSION	LEATHER 1.5T	2
132	MBC04006D2	SCREW-BH	M4*6 SUS27	8
133	381LR4005A	WIRE-MOTOR		1
134	138LR4012A	SPRING-TENSION		1
135	12200X003A	BEARING		2
136	013LR3002B	FRAME-CUTTER		1
137	140LR3003A	HOLDER-CUTTER,C		1
138	138LR4001A	SPRING-CROSS		1
139	213LR4001A	CUTTER-CROSS		1
140	MPC03006D2	SCREW-PH	M3*6 SUS27	1
141	023LR3003A	KNOB-CUTTER,C		1
142	NHB03024D2	NUT		1
143	SKE06006B6	SCREW-SET	M6*6	1
144	381LR4032A	WIRE-REMOTE(CUL)		1

145	025LR4001A	CASE-REMOCON ASS'Y(CUL)		1

No.	Part No.	Part Name	Spec.	Qt'y
146	350CR4001A	PCB-REMOCON(CUL)		1

6.2 RSC-1650LSH Parts List

RSC-1650LSH

No.	Part No.	Part Name	Spec.	Qt'y
1	13500X005A	CASTER-STAND1	2″	2
2	13500X006A	CASTER-STAND2	2″	2
3	WSB13038D2	WASHER-SPRING	SWRH Φ13.2*3.8T	4
4	212LR1012A	STAND-FRAME	SPCC	2
5	BHE08015D2	BOLT	M8*15	8
6	212LR1011A	STAND-CENTER	SPCC	1
7	WSB08016D2	WASHER-SPRING	SUS27	12
8	BHE08065D2	BOLT	M8*65	7
9	365LR4004A	SWITCH-FOOT ASS'Y		1
10	23300X008A	CABLE GRAND		2
11	013LR2118A	FRAME-BASE	SPCC	1
12	34000S010A	POWER-TRANSFORMER	AC220V-230V 50/60Hz	1
13	MBC04008D2	SCREW-BH	M4*8 SUS27	22
14	013LR3002Q	FRAME-CUTTER	AL6063	1
15	WSB05013D2	WASHER-SPRING	5.1*1.3T	26
16	MBC05018D2	SCREW-BH	M5*18 SUS27	2
17	350LR3038B	PCB-MAIN ASS'Y		1
18	23200X001A	SUPPORT-BRACKET PCB	NYLON	4
19	21000S029A	MOTOR-MAIN	36V 60W 75:1	1
20	014LR1003B	TABLE-FRONT	AL6063	1
21	TFH04018D2	SCREW-FH	M4*18	16
22	381LR4009A	WIRE-TAKEUP		1
23	122LR4008A	BUSH-ROLLER LAMI,LO	S45C	2
24	12200X043A	DU-BUSH	40*35	4
25	013LR2116D	FRAME-FRONT	SPCC	1
26	122LR4100A	BUSH-ROLLER,LAMI UP	S45C	2
27	133LR2030A	ROLLER-LAMI		1
28	120LR3035D	SHAFT-CAM	S45C	1
29	120LR4002B	SHAFT-TAKE UP	S45C	1
30	MFC04008D2	SCREW-FH	M4*8 SUS27	8
31	021LR3006A	BRACKET-CLAMPER LEVER	ABS	1
32	140LR4037A	HOLDER-SHAFT,T	S45C	1
33	147LR4002A	PAD-TENSION	LEATHER	1
34	12200X022A	BEARING-RADIAL	NTB	4
35	WPB15010D2	WASHER-PLAIN	15.5*18*1.0T	2
36	138LR4002A	SPRING-TENSION	Φ3.8	2
37	032LR4020A	SHEET-PRESSURE	PC 0.3T	1
38	SKE04010B6	SCREW-SET	M4*10 FZB	1
39	SKE04015B6	SCREW-SET	M4*15 FZB	1
40	12200X004A	DU BUSH	10*10	1
41	WPB05030H8	WASHER-PLAIN	11.8*5*3T	1
42	RIV05013E8	BRINDER-RIVET	AL	1
43	013LR2117D	FRAME-MIDDLE	SPCC	1
44	380LR4001A	POWER-CORD EU	AC230 16A	1
44-1	380CR4007A	POWER-CORD UK	AC240V 13A	1
44-2	380CR4004A	POWER-CORD CUL	AC125V 15A	1
45	381LR4013B	WIRE-POWER S/W,EU		1
46	381LR4020B	WIRE-FUSE,EU		1

No.	Part No.	Part Name	Spec.	Qt'y
47	381LR4083A	WIRE-EMER/MOTOR		1
48	381LR4008A	WIRE-MAIN		1
49	136LR4004D	CHAIN-ROLLER	64EA 35#	1
50	013LR2111A	FRAME-L	SPCC	1
51	12200X032A	DU-BUSH	12*10	2
52	122LR4004A	BUSH-PLATE PRESSURE		1
53	WSB04010D2	WASHER-SPRING	4.1*1.0T	68
54	141LR2038A	PLATE-PRESSURE,L	SPCC	1
55	141LR3041A	PLATE-PRESSURE,LAMI	SPCC	2
56	138LR4008A	SPRING-PRESSURE	SWRH	4
57	WPB06015D2	WASHER-PLAIN	6.5*15*1.5T	10
58	BHE06050D2	BOLT	M6*50	4
59	124LR4019A	ECCENTRIC-CAM	S45C	2
60	SKE05015B6	SCREW-SET	M5*15 FZB	26
61	MPC03014D2	SCREW-PH	M3*14	4
62	31300S006A	SAFETY-SENSOR		1
63	141LR4114A	BRACKET-SENSOR	SECC 1.2T	2
64	WSB03007D2	WASHER-SPRING	3.1*0.7T	6
65	MBC03006D2	SCREW-BH	M3*6 SUS27	7
66	MBC05010D2	SCREW-BH	M5*10	6
67	RC001500C8	SNAP RING	STW-15 WON IL	1
68	36400X018A	SWITCH-EMERGENCY		2
69	021LR2001A	COVER-L	ABS	1
70	013LR2112A	FRAME-R	SPCC 4.5T	1
71	131LR4005A	SPROCKET-ROLLER,LAMI	S45C	1
72	131CR4001A	SPROCKET,ROLLER,LEFT	S45C	1
73	SKE06010B6	SCREW-SET	M6*10 FZB	1
74	32500X0007	FUSE-MAIN	AC250V 15A	1
75	36600X001A	FUSE-BLOCK		1
76	WSB06015D2	WASHER-SPRING		12
77	BHE06020D2	BOLT	SUS27	12
78	131LR4004B	SPROCKET-MOTOR	S45C	1
79	RE001000C8	E-RING	ETW-10 WON IL	1
80	134LR4001A	PULLY-CHAIN	S45C	3
81	141LR2039A	PLATE-PRESSURE,R	SPCC	1
82	032LR3006A	SHEET-FUNC	PC 0.75T	1
83	021LR2003B	COVER-TAKE UP,L	ABS	1
84	021LR2022A	COVER-R	ABS	1
85	112004001D	NUT	M6*1.25 SUS27	16
86	MBC04018D2	SCREW-BH	M4*18 SUS27	3
87	SKE05010B6	SCREW-SET	M5*10	4
88	125LR4003A	LEVER-PRESSURE	S45C	1
89	023LR4010A	KNOB-LEVER	NYLON	1
90	350LR3044A	PCB-SUB ASS'Y		1
91	023LR3008A	BUTTON-FUNC	SILICON KE-9X1	1
92	TPH03006B8	SCREW-TAP TITE PH	M3*6 SUS27	2
93	011LR2003A	COVER-REAR	AL6063	1
94	23300X001A	BUSHING-CORD,EU		1
95	36400X002B	SWITCH-MAIN		1
96	MBC04025D2	SCREW-BH	M4*25	36

No.	Part No.	Part Name	Spec.	Qt'y
97	141LR4069A	2"FILM CORE SUPPORT PLATE	SPCC	12
98	021LR3008A	2"FILM CORE COVER	ABS	12
99	013LR3022A	2"FILM CORE HOUSING	AL6063	6
100	147CR4003A	SILICON RUBBER	SILICON	12
101	MBC05030D2	SCREW-BH	M5*30 SUS27	36
102	141LR4070A	3'FILM CORE SUPPORT PLATE	SPCC	12
103	021LR3009A	3"FILM CORE COVER	ABS	12
104	013LR3023A	3"FILM CORER HOUSING	AL6063	6
105	141LR4050A	PLATE-BEARING	SECC 2T ZWP5	2
106	051LR4007A	LABEL-EMER2		2
107	145LR3001A	GUIDE-DOCUMENT	ABS	2
108	023LR4002A	KNOB-BOLT GUIDE	PHENOL BLK	2
109	111LR4006A	BOLT-GUIDE	S45C	2
110	141LR4113A	BRACKET-BASE	EGI	2
111	141LR4115A	PLATE-SENSOR		2
112	140CR4001B	HOLDER-TAKE UP 2	S45C Cu+Ni+Cr	1
113	130CR4001B	GEAR-MIDDLE	S45C	1
114	122LR4006B	BUSH-PULLY	S45C	3
115	RC000800C8	SNAP RING	STW-8 WON IL	1
116	136LR4001H	CHAIN	#25 156E	1
117	032LR4008A	SHEET-CUTTER	PC 0.18T	1
118	130CR4002A	SPROCKET-TAKE UP	S45C	1
119	147LR4009A	PAD-TAKE UP	NBR	1
120	141LR4006A	PLATE-SLIP	SPCC 2.0T	1
121	125LR4001A	HANDLE-TENSION	S45C	2
122	140LR4036A	HOLDER-SHAFT,FILM	S45C	2
123	120LR3004B	SHAFT FILM,LO	S45C	2
124	015LR3008B	BAR-IDLE,UP	S45C	2
125	12200X009A	DU-BUSH	FLANGE 15*20	2
126	143LR3001A	SUPPORT-SHAFT,LO	S45C	2
127	WPB08016D2	WASHER-PLAIN	8.5*25*1.6T	1
128	147LR4019A	RUBBER-SPONGE	36*36*2T	1
129	112004001C	NUT	M10*1.25	1
130	141LR4009A	BRACKET-REAR COVER	SEC 2.0T	4
131	147LR4002A	PAD-TENSION	LEATHER 1.5T	2
132	MBC04006D2	SCREW-BH	M4*6 SUS27	8
133	381LR4005B	WIRE-MOTOR		1
134	138LR4012A	SPRING-TENSION		1
135	12200X003A	BEARING		2
136	013LR2012B	FRAME-SENSOR		1
137	381LR4027B	SENSOR-ASS'Y		1
138	021LR3003A	CASE-SENSOR,UP		1
139	021LR3004A	CASE-SENSOR,LO		1
140	223LR2003A	HEATER-ASS'Y		1
141	133LR2045A	ROLLER-LAMI		1
142	142LR4001A	SPACE-HEATER,BKT		4
143	WPB04008D2	WASHER-PLAIN		4
144	138LR4014A	SPRING-HEATER		4
145	WPB05008F8	WASHER-PLAIN		8
146	141LR4011A	BRACKET-HEATER,STOPPER		2

No.	Part No.	Part Name	Spec.	Qt'y
147	NHB05038F8	NUT		2
148	MBC04045D2	SCREW-BH	M4*45	4
149	NHB05038D2	NUT		2
150	MFC04018D2	SCREW-FH	M4*18	4
151	381LR4030A	WIRE-UP HEATER,EU		1
152	381LR4036C	WIRE--T FUSE UP		1
153	381LR4055A	WIRE-UP HEATER2,EU		1
154	013LR3002B	FRAME-CUTTER		1
155	140LR3003A	HOLDER-CUTTER,C		1
156	138LR4001A	SPRING-CROSS		1
157	213LR4001A	CUTTER-CROSS		1
158	MPC03006D2	SCREW-PH	M3*6 SUS27	1
159	023LR3003A	KNOB-CUTTER,C		1
160	NHB03024D2	NUT		1
161	363LR4002A	BI-METAL		1
162	141LR4056A	BRACKET-T/FUSE		1
163	SKE06006B6	SCREW-SET	M6*6	1
164	381LR4032A	WIRE-REMOTE(CUL)		1
165	025LR4001A	CASE-REMOCON ASS'Y(CUL)		1
166	350CR4001A	PCB-REMOCON(CUL)		1

6. Exploded View

6.1 RSC-1650LS Explored View

Frame L

Frame R

Stand Part, Frame-Base

Frame, Roller, Shaft,Front Table

Wire and Film Shafts

6.2 RSC-1650LSH Explored View

Frame L

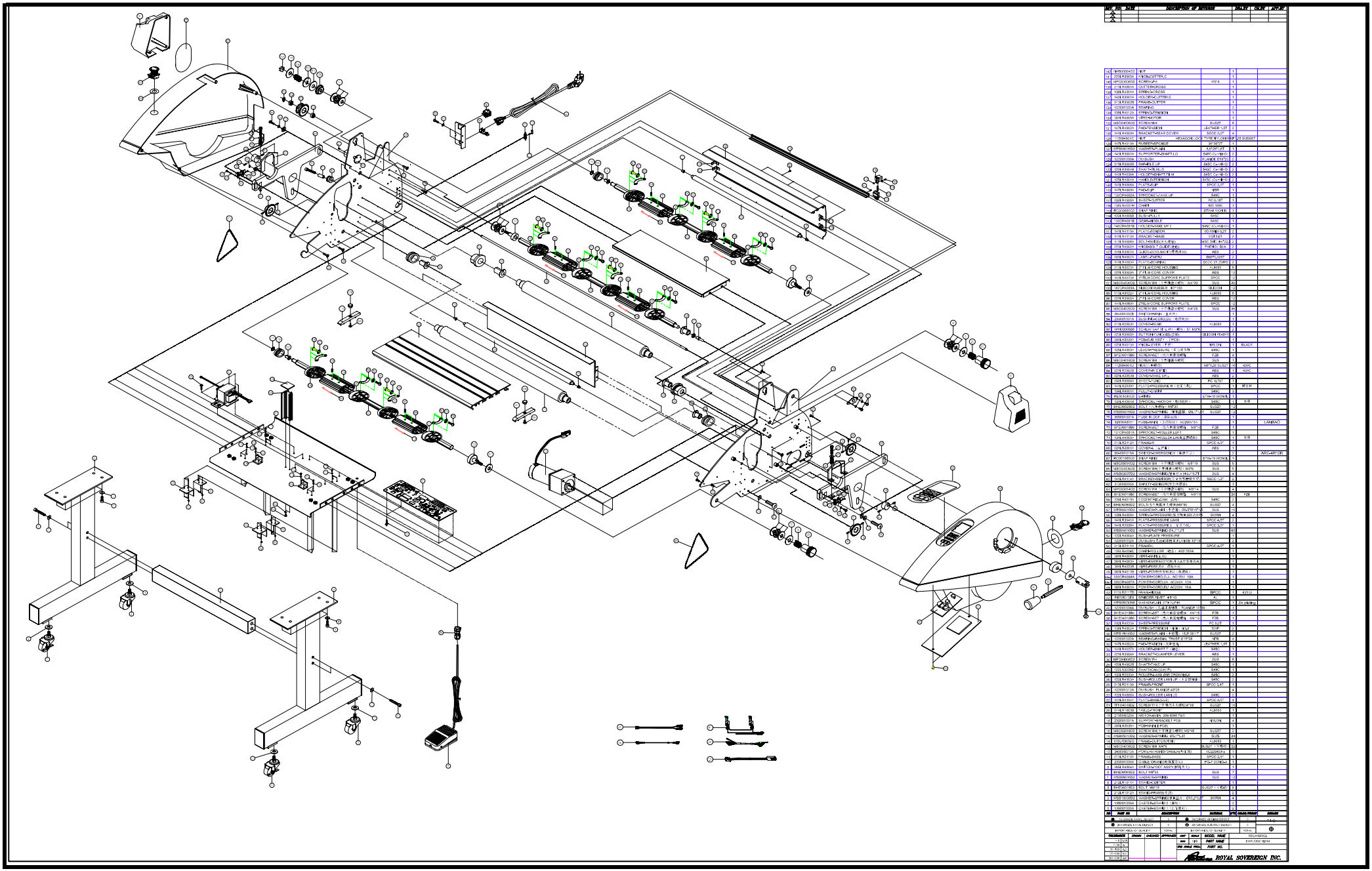
Frame R

Stand Part, Frame-Base

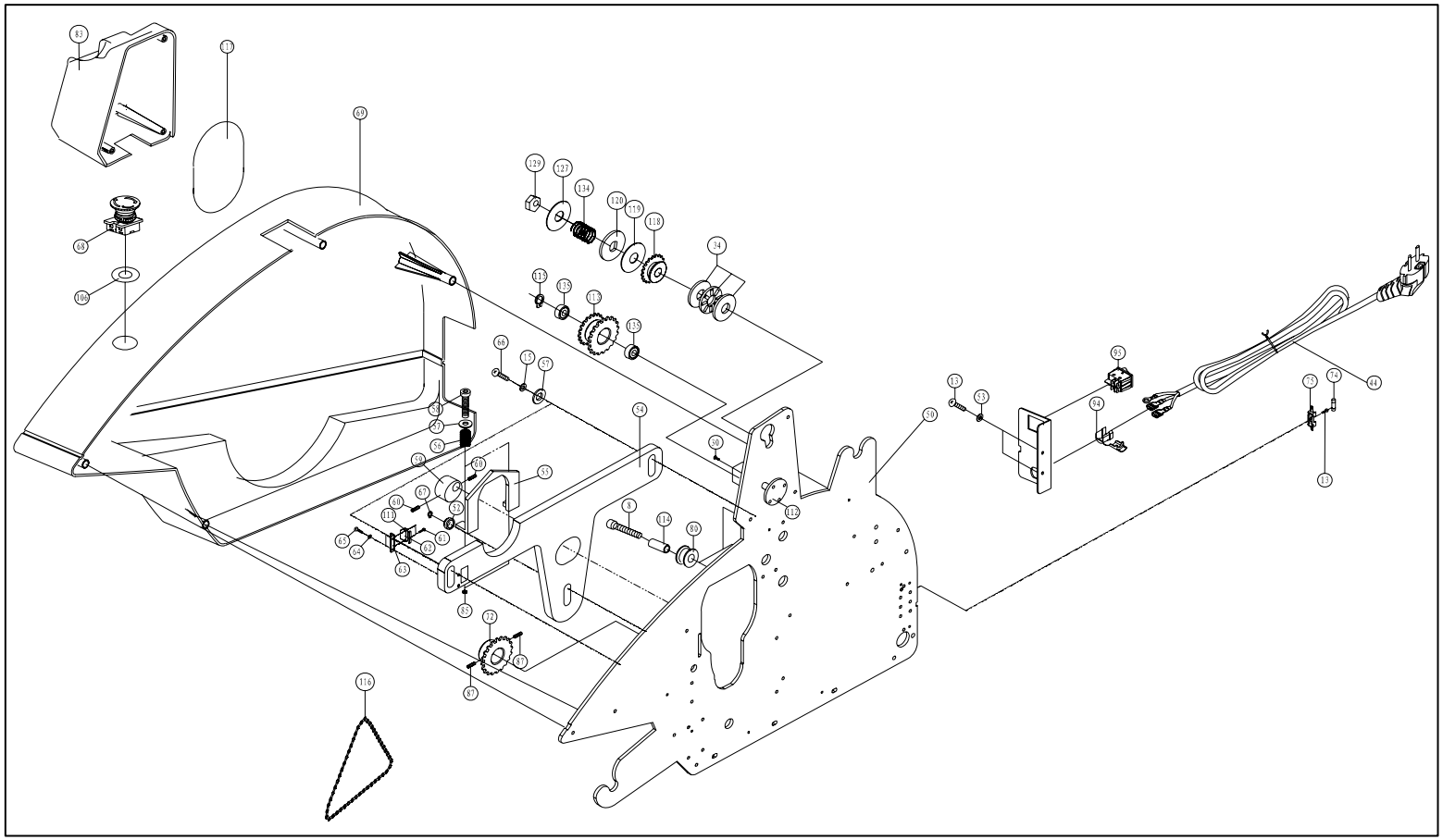
Frame, Roller, Shaft,Front Table

Wire and Film Shafts

7.1 RSC-1650LS Explode View

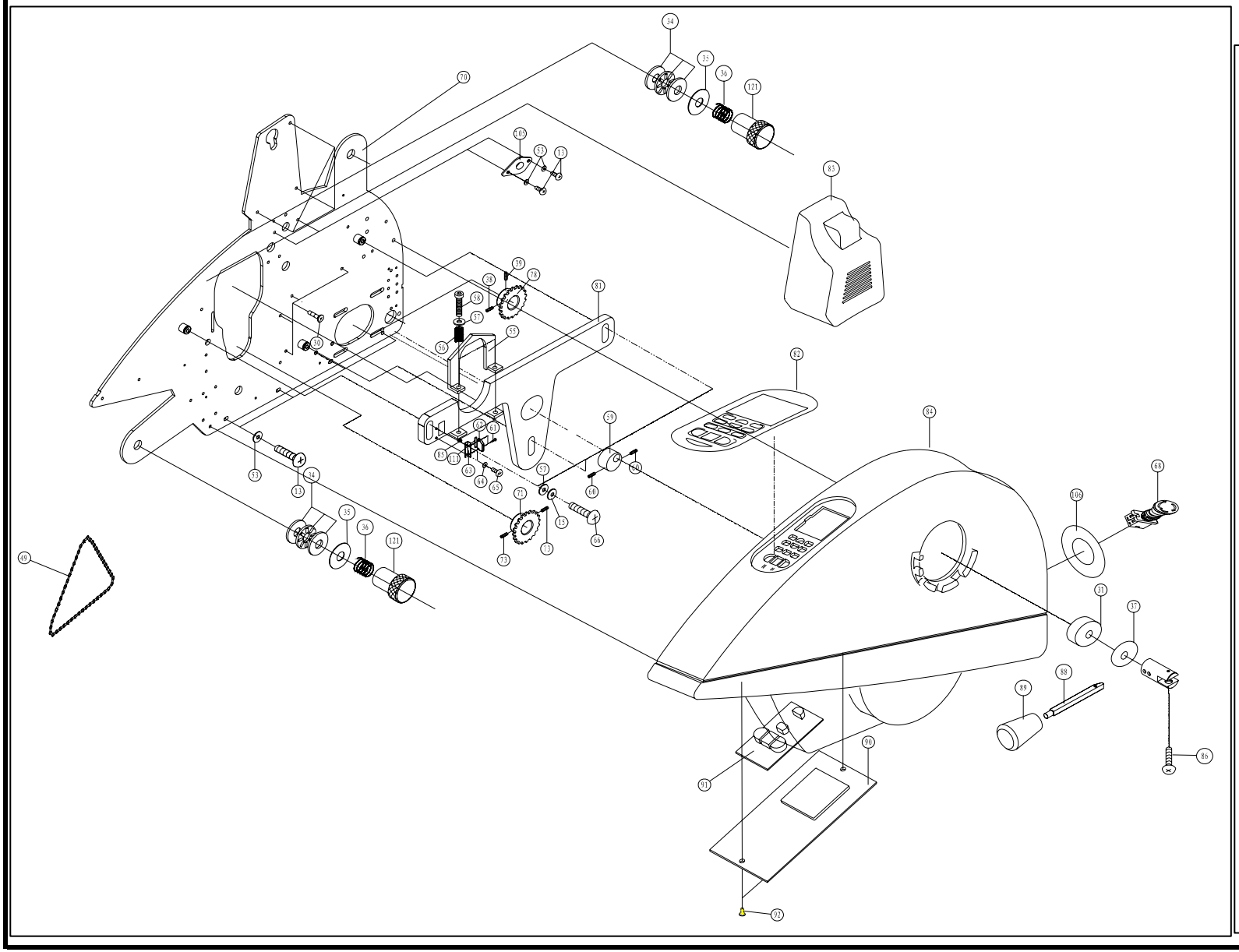


Frame - L



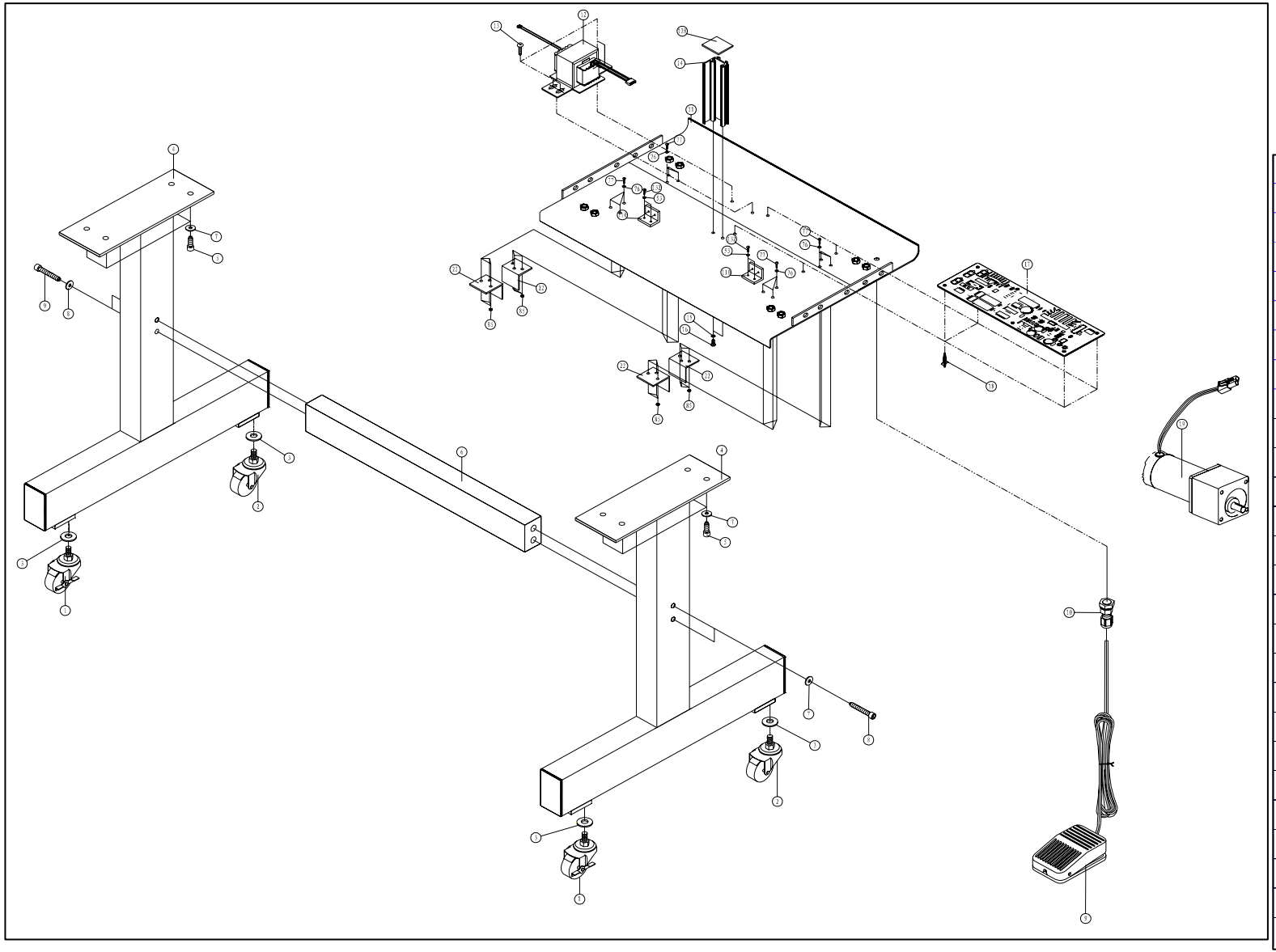
135	12200X003A	BEARING
134	138LR4012A	SPRING-TENSION
129	112004001C	NUT HEXAGON LOCK
127	WPB08016D2	WASHER-PLAIN
120	141LR4006A	PLATE-SLIP
119	147LR4009A	PAD-SLIP
118	130CR4002A	SPROCKET-TAKE UP
117	032LR4008A	SHEET-CUTTER
116	136LR4001H	CHAIN
115	RC000800C8	SNAP RING
114	122LR4006B	BUSH-PULLY
113	130CR4001B	GEAR-MIDDLE
112	140CR4001B	HOLDER-TAKE UP 2
111	141LR4115A	PLATE-SENSOR
106	051LR4007A	LABEL-EMER2
95	36400X002B	SWITCH-MAIN（主开关）
94	23300X001A	BUSHING-CORD,EU（电源线扣）
87	SKE05010B6	SCREW-SET（内六角紧定螺栓）
85	112004001D	NUT(六角螺母)
83	021LR2003B	COVER-TAKE UP,L
80	134LR4001A	PULLY-CHAIN
75	36600X001A	FUSE BLOCK（保险丝座）
74	32500X0011	FUSE-MAIN （主保险丝） AC250V 5A
72	131CR4001A	SPROCKET-ROLLER,LEFT
69	021LR2001A	COVER-L（左护盖）
68	36400X018A	SWITCH-EMERGENCY（急停开关）
67	RC001500C8	SNAP RING
66	MBC05010D2	SCREW BH（十字槽盘头螺钉）M5*10
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
64	WSB03007D2	WASHER-SPRING(弹簧垫片)Φ3.1*0.7T
63	141LR4114A	BRACKEY-SENSOR(安全传感器器支架)
62	31300S006A	SAFETY-SENSOR(安全传感器)
61	MPC03014D2	SCREW PH（十字槽盘头螺钉） M3*14
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
59	124LR4019A	ECCENTRIC-CAM（凸轮）
58	BHE06050D2	BOLT(内六角圆柱头螺栓)M6*50
57	WPB06015D2	WASHER-PLAIN（平垫圈）Ø6.5*Ø15*1.5
56	138LR4008A	SPRING-PRESSURE(压力弹簧)Ø3 ZWP5
55	141LR3041A	PLATE-PRESSURE,LAMI
54	141LR2038A	PLATE-PRESSURE,L（左压力板）
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
52	122LR4004A	BUSH-PLATE PRESSURE
50	013LR2111A	FRAME-L
44-2	380CR4004A	POWER-CORD,CUL AC120V 15A
44-1	380CR4007A	POWER-CORD,UK AC240V 13A
44	380LR4001A	POWER-CORD,EU AC230V 16A
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
30	MFC04008D2	SCREW FH
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
13	MBC04008D2	SCREW BH M4*8
8	BHE08065D2	BOLT M8*65

Frame - R



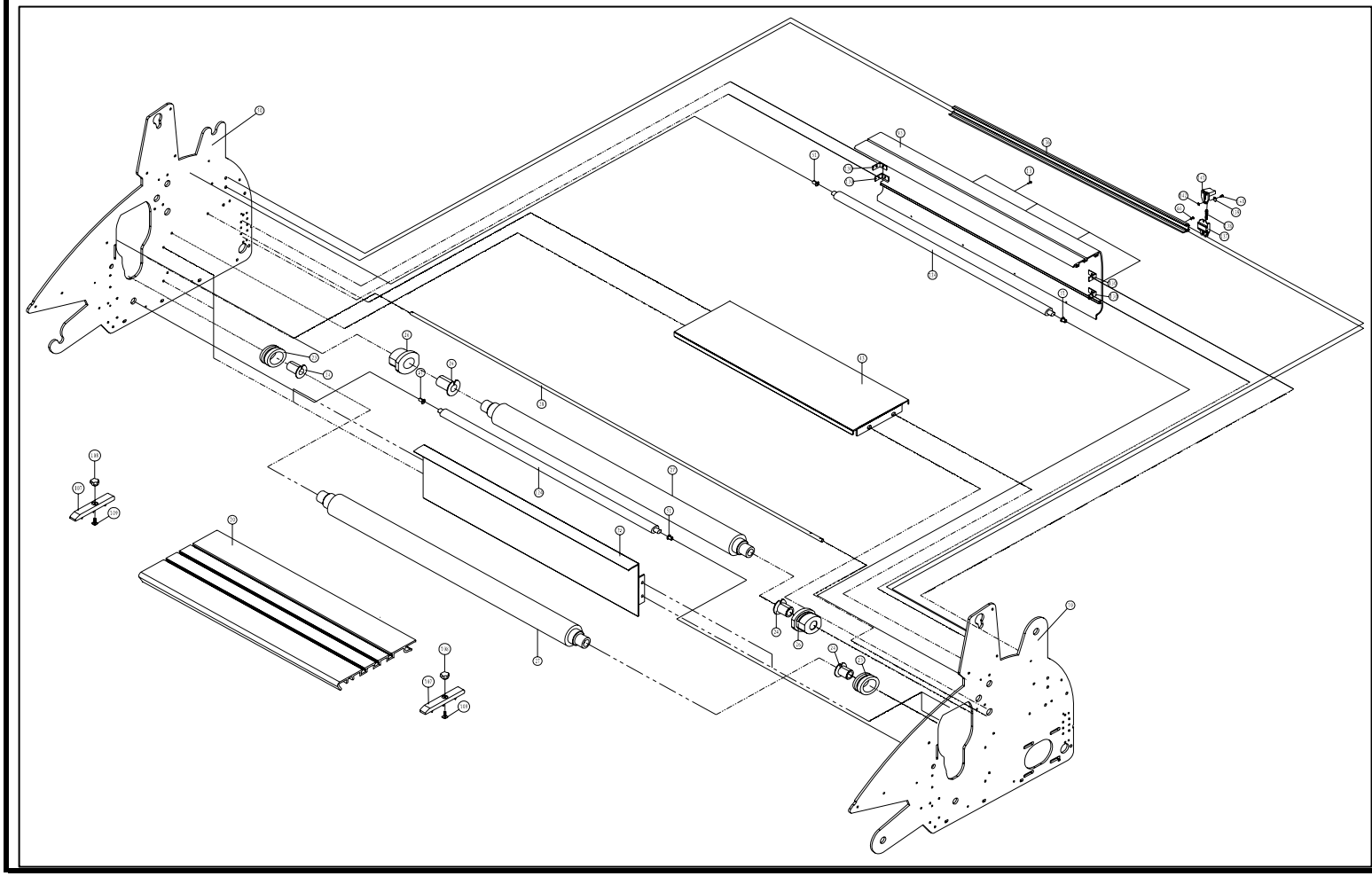
121	125LR4001A	HANDLE-TENSION
111	141LR4115A	PLATE-SENSOR
106	051LR4007A	LABEL-EMER2
105	141LR4050A	PLATE-BEARING
92	TPH03006B8	SCREW TAP TITE PH（螺丝）ST M3*6
91	023LR3008A	BUTTON-FUNC(硅胶按键)
90	350LR3039A	PCB-SUB ASS'Y（子PCB）
89	023LR4010A	KNOB-LEVER（手把）
88	125LR4003A	LEVER-PRESSURE（压力调节杆）
86	MBC04018D2	SCREW BH（十字槽盘头螺钉）
85	112004001D	NUT(六角螺母)
84	021LR2002B	COVER-R(右护盖)
83	021LR2003B	COVER-TAKE UP,L
82	032LR3006A	SHEET-FUNC
81	141LR2039A	PLATE-PRESSURE,R（右压力板）
78	131LR4004B	SPROCKET-MOTOR（电机链轮）
73	SKE06010B6	SCREW-SET（内六角紧定螺栓） M6*10
71	131LR4005A	SPROCKET-ROLLER,LAMI(压膜链轮)
70	013LR2112A	FRAME-R
68	36400X018A	SWITCH-EMERGENCY（急停开关）
66	MBC05010D2	SCREW BH（十字槽盘头螺钉）M5*10
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
64	WSB03007D2	WASHER-SPRING(弹簧垫片)Φ3.1*0.7T
63	141LR4114A	BRACKEY-SENSOR(安全传感器器支架)
62	31300S006A	SAFETY-SENSOR(安全传感器)
61	MPC03014D2	SCREW PH（十字槽盘头螺钉） M3*14
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
59	124LR4019A	ECCENTRIC-CAM（凸轮）
58	BHE06050D2	BOLT(内六角圆柱头螺栓)M6*50
57	WPB06015D2	WASHER-PLAIN（平垫圈）Ø6.5*Ø15*1.5
56	138LR4008A	SPRING-PRESSURE(压力弹簧)Ø3 ZWP5
55	141LR3041A	PLATE-PRESSURE,LAMI
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
49	136LR4004C	CHAIN-ROLLER（链条） #35 70EA
39	SKE04015B6	SCREW-SET（内六角紧定螺栓）M4*15
38	SKE04010B6	SCREW-SET（内六角紧定螺栓）M4*10
37	032LR4020A	SHEET-PRESSURE
36	138LR4002A	SPRING-TENSION（弹簧）Φ3.8
35	WPB15010D2	WASHER-PLAIN（平垫圈）15.5*28*1T
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
31	021LR3006A	BRACKET-CLAMPER LEVER
30	MFC04008D2	SCREW FH
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
13	MBC04008D2	SCREW BH M4*8

Stand Part, Frame-Base



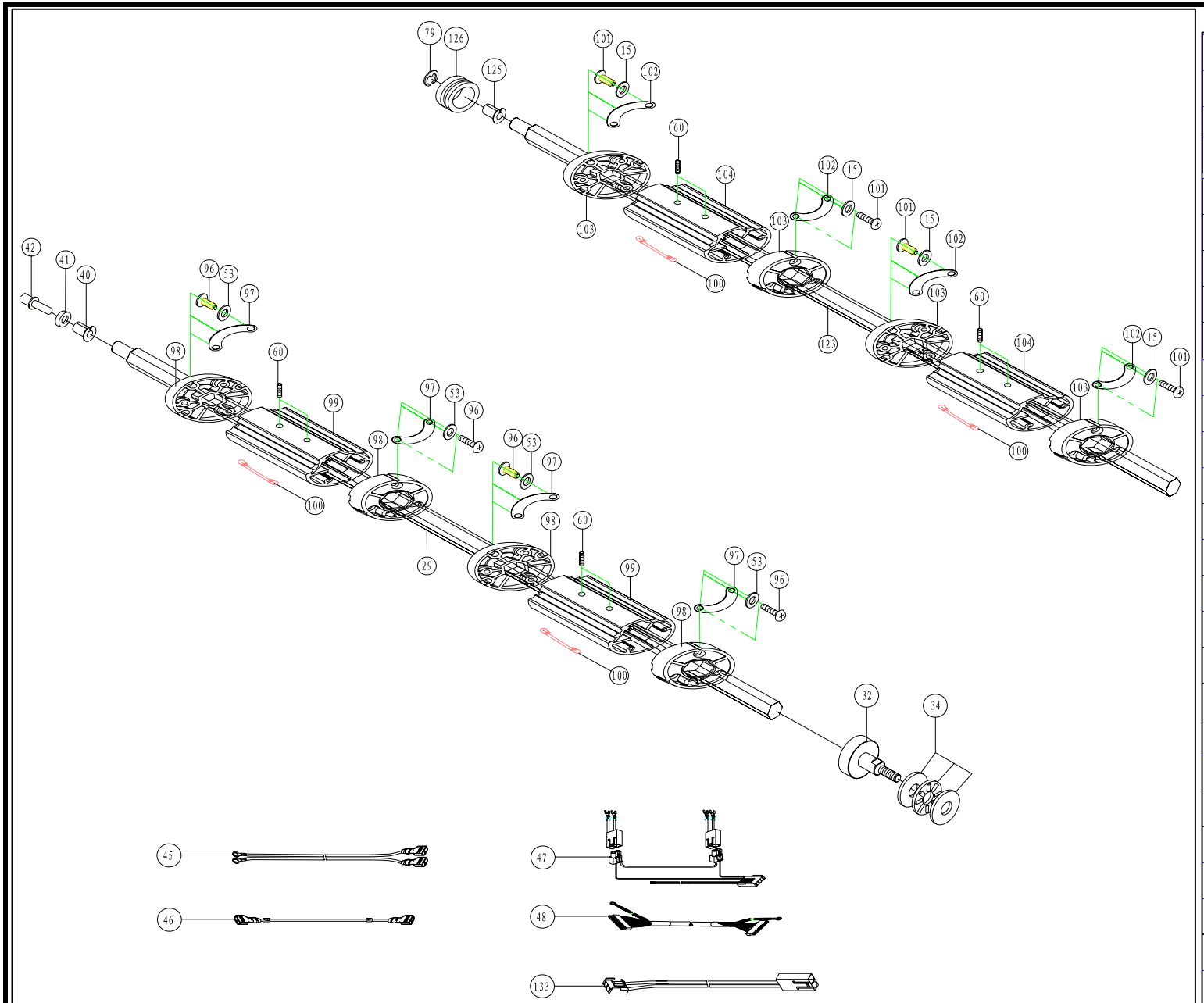
132	MBC04006D2	SCREW-BH
128	147LR4019A	RUBBER-SPONGE
110	141LR4113A	BRACKET-BASE
85	112004001D	NUT(六角螺母)
77	BHE06020D2	BOLT（六角螺栓）M6*20
76	WSB06015D2	WASHER-SPRING（弹性垫圈）Ø6.1*1.5
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
22	141LR4154A	PLATE-BASE(EU2)
19	21000S029A	MOTOR-MAIN 36V 60W 75:1
18	23200X001A	SUPPORT-BRACKET PCB
17	350LR3038A	PCB-MAIN(主PCB)
16	MBC05018D2	SCREW BH(十字槽盘头螺钉) M5*18
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
14	013LR3002Q	FRAME-CUTTER(支撑)
13	MBC04008D2	SCREW BH M4*8
12	34000S010A	POWER-TRANSFORMER(变压器)
11	013LR2118A	FRAME-BASE
10	23300X008A	CABLE GRAND(电缆固定头)
9	365LR4004A	SWITCH-FOOT ASS'Y(脚踏开关)
8	BHE08065D2	BOLT M8*65
7	WSB08016D2	WASHER-SPRING
6	212LR1011A	STAND-CENTER
5	BHE08015D2	BOLT M8*15
4	212LR1012A	STAND-FRAME(支腿)
3	WSB13038D2	WASHER-SPRING(弹簧垫片）Ø13.2*3.8
2	13500X006A	CASTER-STAND 2（脚轮）
1	13500X005A	CASTER-STAND 1（刹车脚轮）

Frame, Roller, Shaft,Front Table



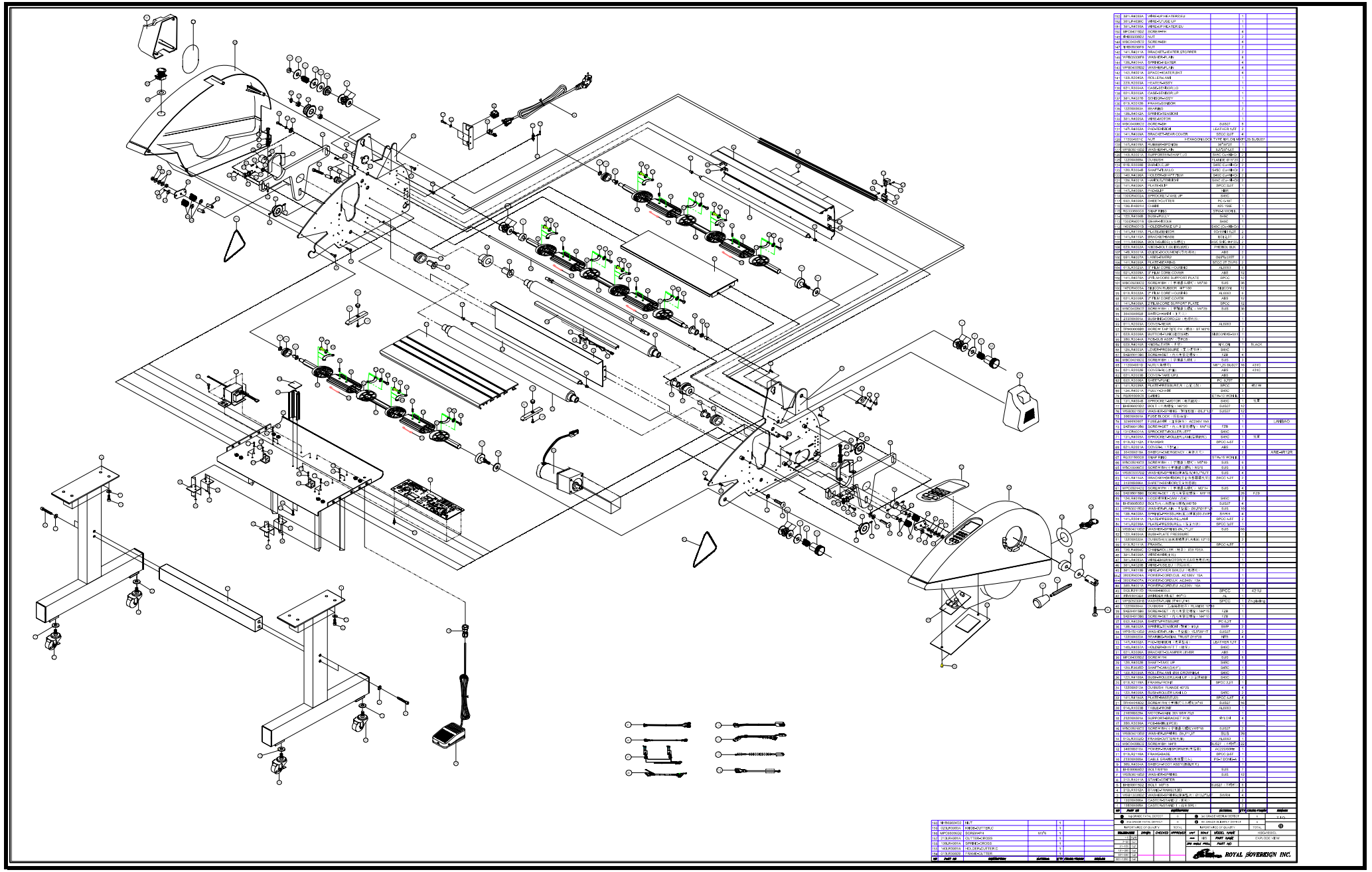
142	NHB03024D2	NUT
141	023LR3003A	KNOB-CUTTER,C
140	MPC03006D2	SCREW-PH
139	213LR4001A	CUTTER-CROSS
138	138LR4001A	SPRING-CROSS
137	140LR3001A	HOLDER-CUTTER,C
136	013LR3002B	FRAME-CUTTER
124	015LR3008B	BAR-IDLE,UP
109	111LR4006A	BOLT-GUIDE(方头螺栓)
108	023LR4002A	KNOB-BOLT,GUIDE(旋钮)
107	145LR3001A	GUIDE-DOCUMENT(导向滑块)
95	36400X002B	SWITCH-MAIN（主开关）
94	23300X001A	BUSHING-CORD,EU（电源线扣）
93	011LR2003A	COVER-REAR
70	013LR2112A	FRAME-R
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
51	12200X032A	DU BUSH(无油润滑轴承)FLANGE 12*10
50	013LR2111A	FRAME-L
44-2	380CR4004A	POWER-CORD,CUL AC120V 15A
44-1	380CR4007A	POWER-CORD,UK AC240V 13A
44	380CR4001A	POWER-CORD,EU AC230V 16A
43	013LR2117D	FRAME-MIDDLE
28	120LR3035D	SHAFT-CAM(凸轮杆)
27	133LR2030A	ROLLER-LAMI Ø95 CROWN:0.4
26	122LR4100A	BUSH-ROLLER,LAMI UP（上压膜轴套）
25	013LR2119A	FRAME-FRONT
24	12200X012A	DU BUSH FLANGE 40*25
23	122LR4008A	BUSH-ROLLER LAMI LO
20	014LR1003B	TABLE-FRONT

Wire and Film Shafts

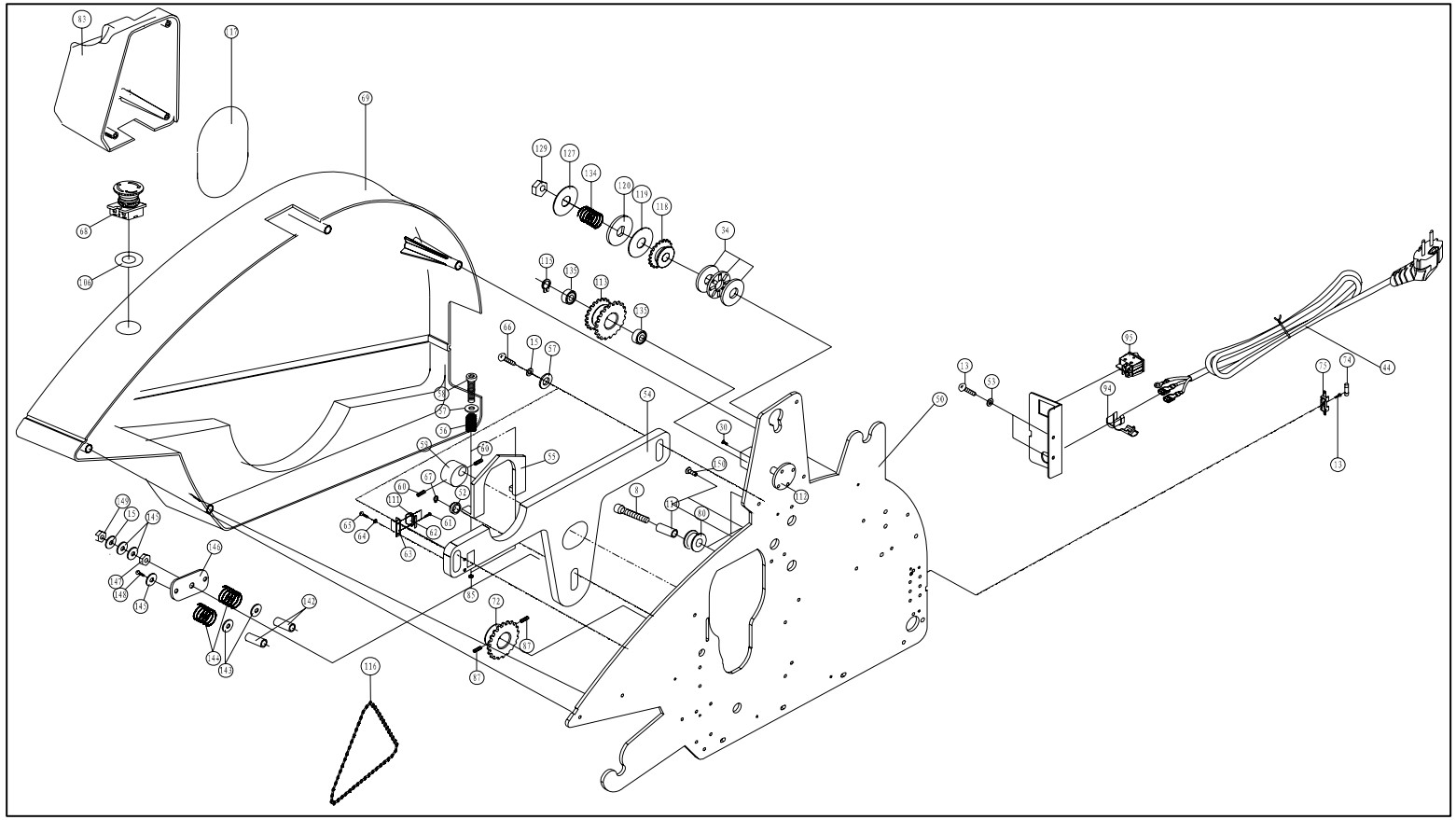


133	381LR4005A	WIRE-MOTOR
126	143LR3001A	SUPPORTER-SHAFT,LO
125	12200X009A	DU BUSH
123	120LR3004B	SHAFT-FILM,LO
104	013LR3023A	3" FILM CORE HOUSING
103	021LR3009A	3" FILM CORE COVER
102	141LR4070A	3"FILM CORE SUPPORT PLATE
101	MBC05030D2	SCREW BH（十字槽盘头螺钉）M5*30
100	147CR4003A	SILICON RUBBER Φ7*160
99	013LR3022A	2" FILM CORE HOUSING
98	021LR3008A	2" FILM CORE COVER
97	141LR4069A	2"FILM CORE SUPPORT PLATE
96	MBC04025D2	SCREW BH（十字槽盘头螺钉）M4*25
79	RE001000C8	E-RING
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
48	381LR4008A	WIRE-MAIN(主线)
47	381LR4083A	WIRE-EMER/MOTOR(开关&应急电机线)
46	381LR4020D	WIRE-FUSE,EU（保险丝线）
45	381LR4013C	WIRE-POWER S/W,EU（电源线）
42	RIV05013E8	BRINDER RIVET Φ5*13
41	WPB05030H8	WASHER-PLAIN 3T*Φ11.8*Φ5
40	12200X004A	DU BUSH（无油润滑轴承）FLANGE 10*
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
32	140LR4040A	HOLDER-SHAFT T（轴座）
29	120LR4002B	SHAFT-TAKE UP
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T

7.2. RSC-1650LSH Exploded View

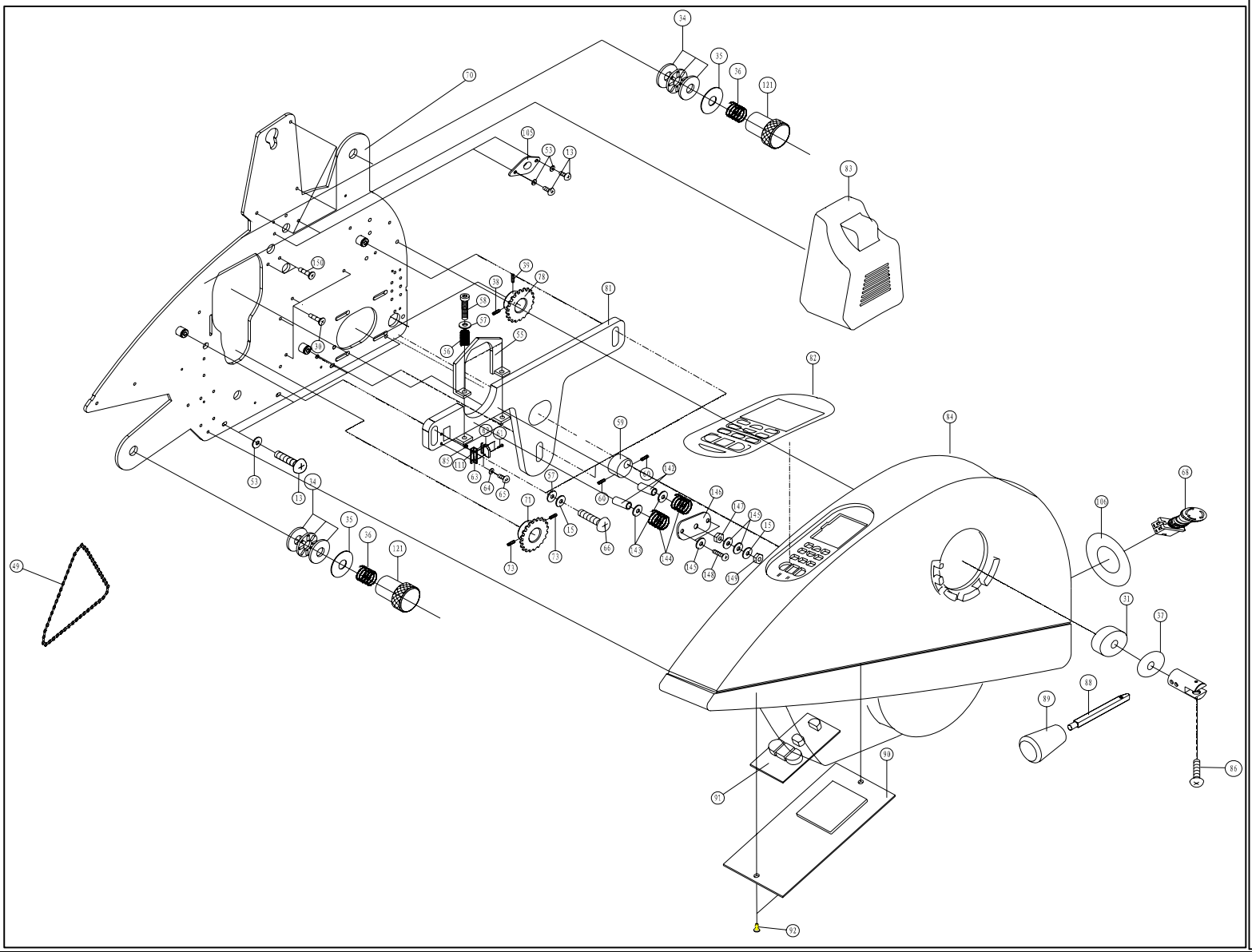


Frame - L



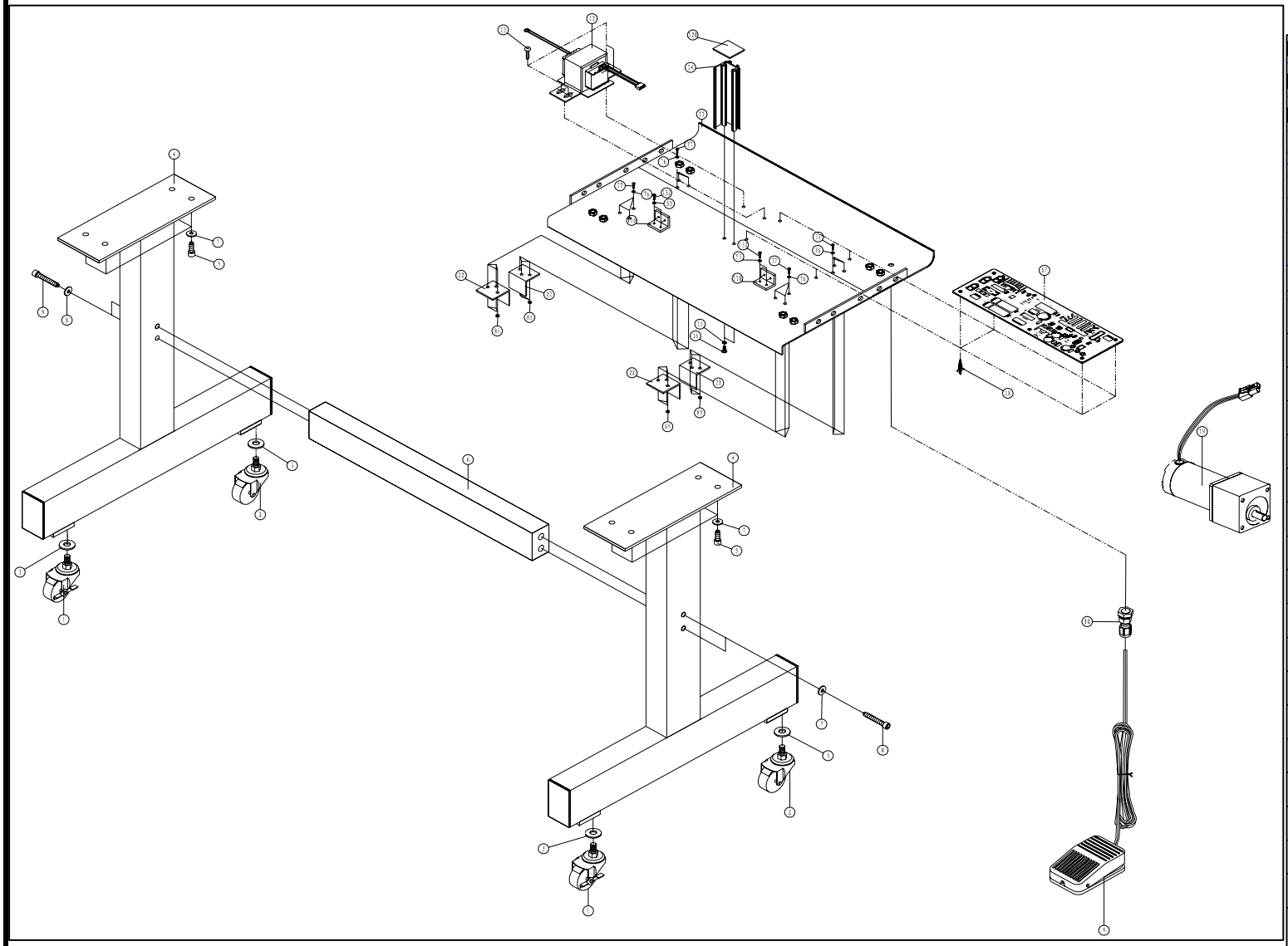
150	MFC04018D2	SCREW-FH
149	NHB05038D2	NUT
148	MBC04045D2	SCREW-BH
147	NHB05038F8	NUT
146	141LR4011A	BRACKET-HEATER,STOPPER
145	WPB05008F8	WASHER-PLAIN
144	138LR4014A	SPRING-HEATER
143	WPB04008D2	WASHER-PLAIN
142	142LR4001A	SPACE-HEATER,BKT
135	12200X003A	BEARING
134	138LR4012A	SPRING-TENSION
129	112004001C	NUT HEXAGON LOC
127	WPB08016D2	WASHER-PLAIN
120	141LR4006A	PLATE-SLIP
119	147LR4009A	PAD-SLIP
118	130CR4002A	SPROCKET-TAKE UP
117	032LR4008A	SHEET-CUTTER
116	136LR4001H	CHAIN
115	RC000800C8	SNAP RING
114	122LR4006B	BUSH-PULLY
113	130CR4001B	GEAR-MIDDLE
112	140CR4001B	HOLDER-TAKE UP 2
111	141LR4115A	PLATE-SENSOR
106	051LR4007A	LABEL-EMER2
95	36400X002B	SWITCH-MAIN（主开关）
94	23300X001A	BUSHING-CORD,EU（电源线扣）
87	SKE05010B6	SCREW-SET（内六角紧定螺栓）
85	112004001D	NUT(六角螺母)
83	021LR2003B	COVER-TAKE UP,L
80	134LR4001A	PULLY-CHAIN
75	36600X001A	FUSE BLOCK（保险丝座）
74	32500X0007	FUSE-MAIN （主保险丝） AC250V 15A
72	131CR4001A	SPROCKET-ROLLER,LEFT
69	021LR2001A	COVER-L（左护盖）
68	36400X018A	SWITCH-EMERGENCY（急停开关）
67	RC001500C8	SNAP RING
66	MBC05010D2	SCREW BH（十字槽盘头螺钉）M5*10
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
64	WSB03007D2	WASHER-SPRING(弹簧垫片)Φ3.1*0.7T
63	141LR4114A	BRACKEY-SENSOR(安全传感器器支架)
62	31300S006A	SAFETY-SENSOR(安全传感器)
61	MPC03014D2	SCREW PH（十字槽盘头螺钉） M3*14
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
59	124LR4019A	ECCENTRIC-CAM（凸轮）
58	BHE06050D2	BOLT(内六角圆柱头螺栓)M6*50
57	WPB06015D2	WASHER-PLAIN（平垫圈）Ø6.5*Ø15*1.
56	138LR4008A	SPRING-PRESSURE(压力弹簧)Ø3 ZWP
55	141LR3041A	PLATE-PRESSURE,LAMI
54	141LR2038A	PLATE-PRESSURE,L（左压力板）
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
52	122LR4004A	BUSH-PLATE PRESSURE
50	013LR2111A	FRAME-L
44-2	380CR4004A	POWER-CORD,CUL AC120V 15A
44-1	380CR4007A	POWER-CORD,UK AC240V 13A
44	380LR4001A	POWER-CORD,EU AC230V 16A
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
30	MFC04008D2	SCREW FH
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
13	MBC04008D2	SCREW BH M4*8
8	BHE08065D2	BOLT M8*65

Frame - R



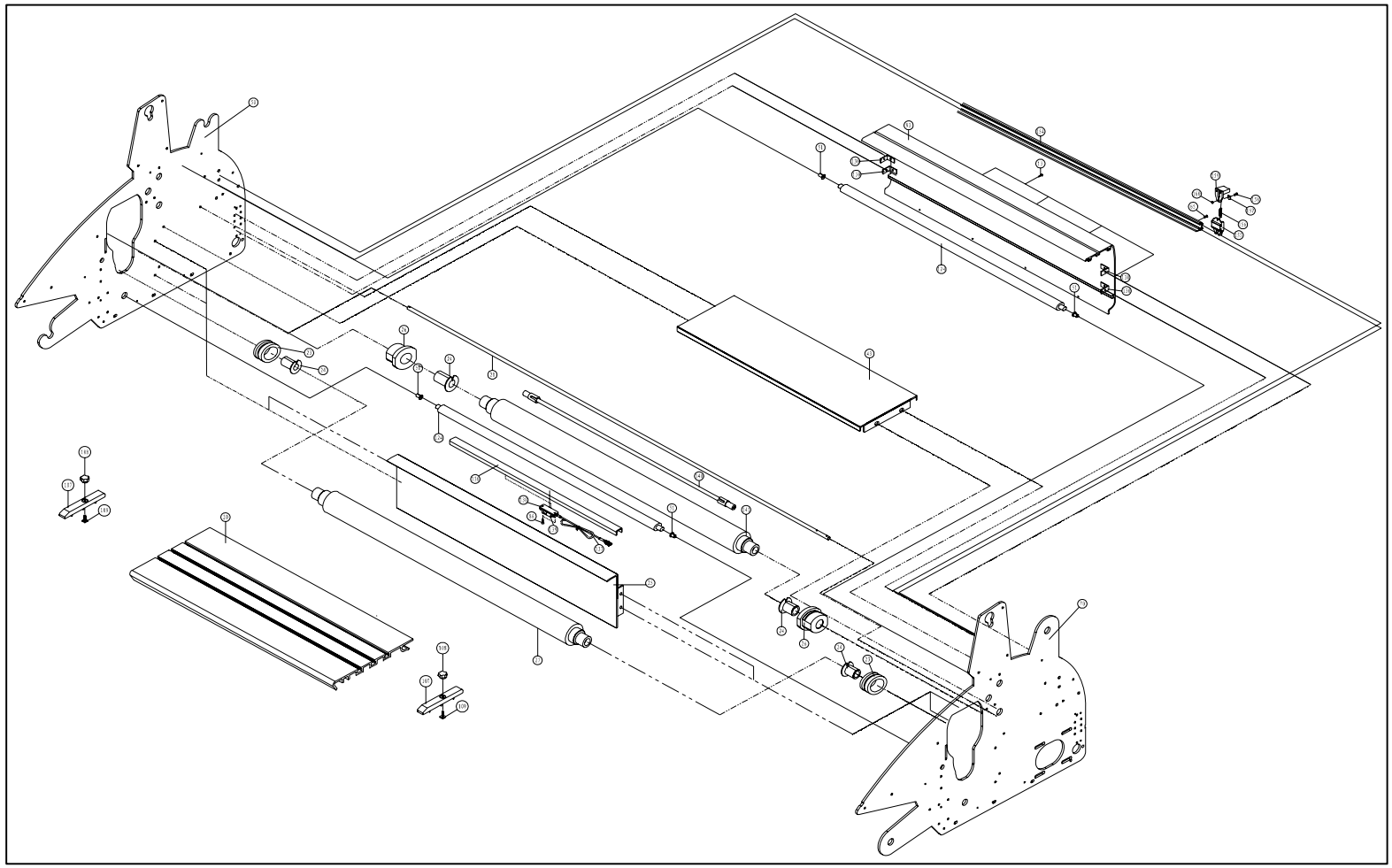
150	MFC04018D2	SCREW-FH
149	NHB05038D2	NUT
148	MBC04045D2	SCREW-BH
147	NHB05038F8	NUT
146	141LR4011A	BRACKET-HEATER,STOPPER
145	WPB05008F8	WASHER-PLAIN
144	138LR4014A	SPRING-HEATER
143	WPB04008D2	WASHER-PLAIN
142	142LR4001A	SPACE-HEATER,BKT
121	125LR4001A	HANDLE-TENSION
111	141LR4115A	PLATE-SENSOR
106	051LR4007A	LABEL-EMER2
105	141LR4050A	PLATE-BEARING
92	TPH03006B8	SCREW TAP TITE PH（螺丝）ST M3*6
91	023LR3008A	BUTTON-FUNC(硅胶按键)
90	350LR3044A	PCB-SUB ASS'Y（子PCB）
89	023LR4010A	KNOB-LEVER（手把）
88	125LR4003A	LEVER-PRESSURE（压力调节杆）
86	MBC04018D2	SCREW BH（十字槽盘头螺钉）
85	112004001D	NUT(六角螺母)
84	021LR2002B	COVER-R(右护盖)
83	021LR2003B	COVER-TAKE UP,L
82	032LR3006A	SHEET-FUNC
81	141LR2039A	PLATE-PRESSURE,R（右压力板）
78	131LR4004B	SPROCKET-MOTOR（电机链轮）
73	SKE06010B6	SCREW-SET（内六角紧定螺栓） M6*10
71	131LR4005A	SPROCKET-ROLLER,LAMI(压膜链轮)
70	013LR2112A	FRAME-R
68	36400X018A	SWITCH-EMERGENCY（急停开关）
66	MBC05010D2	SCREW BH（十字槽盘头螺钉）M5*10
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
64	WSB03007D2	WASHER-SPRING(弹簧垫片)Φ3.1*0.7T
63	141LR4114A	BRACKEY-SENSOR(安全传感器器支架)
62	31300S006A	SAFETY-SENSOR(安全传感器)
61	MPC03014D2	SCREW PH（十字槽盘头螺钉） M3*14
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
59	124LR4019A	ECCENTRIC-CAM（凸轮）
58	BHE06050D2	BOLT(内六角圆柱头螺栓)M6*50
57	WPB06015D2	WASHER-PLAIN（平垫圈）Ø6.5*Ø15*1
56	138LR4008A	SPRING-PRESSURE(压力弹簧)Ø3 ZWP
55	141LR3041A	PLATE-PRESSURE,LAMI
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
49	136LR4004C	CHAIN-ROLLER（链条） #35 70EA
39	SKE04015B6	SCREW-SET（内六角紧定螺栓）M4*15
38	SKE04010B6	SCREW-SET（内六角紧定螺栓）M4*10
37	032LR4020A	SHEET-PRESSURE
36	138LR4002A	SPRING-TENSION（弹簧）Φ3.8
35	WPB15010D2	WASHER-PLAIN（平垫圈）15.5*28*1T
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
31	021LR3006A	BRACKET-CLAMPER LEVER
30	MFC04008D2	SCREW FH
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
13	MBC04008D2	SCREW BH M4*8

Stand Part, Frame-Base



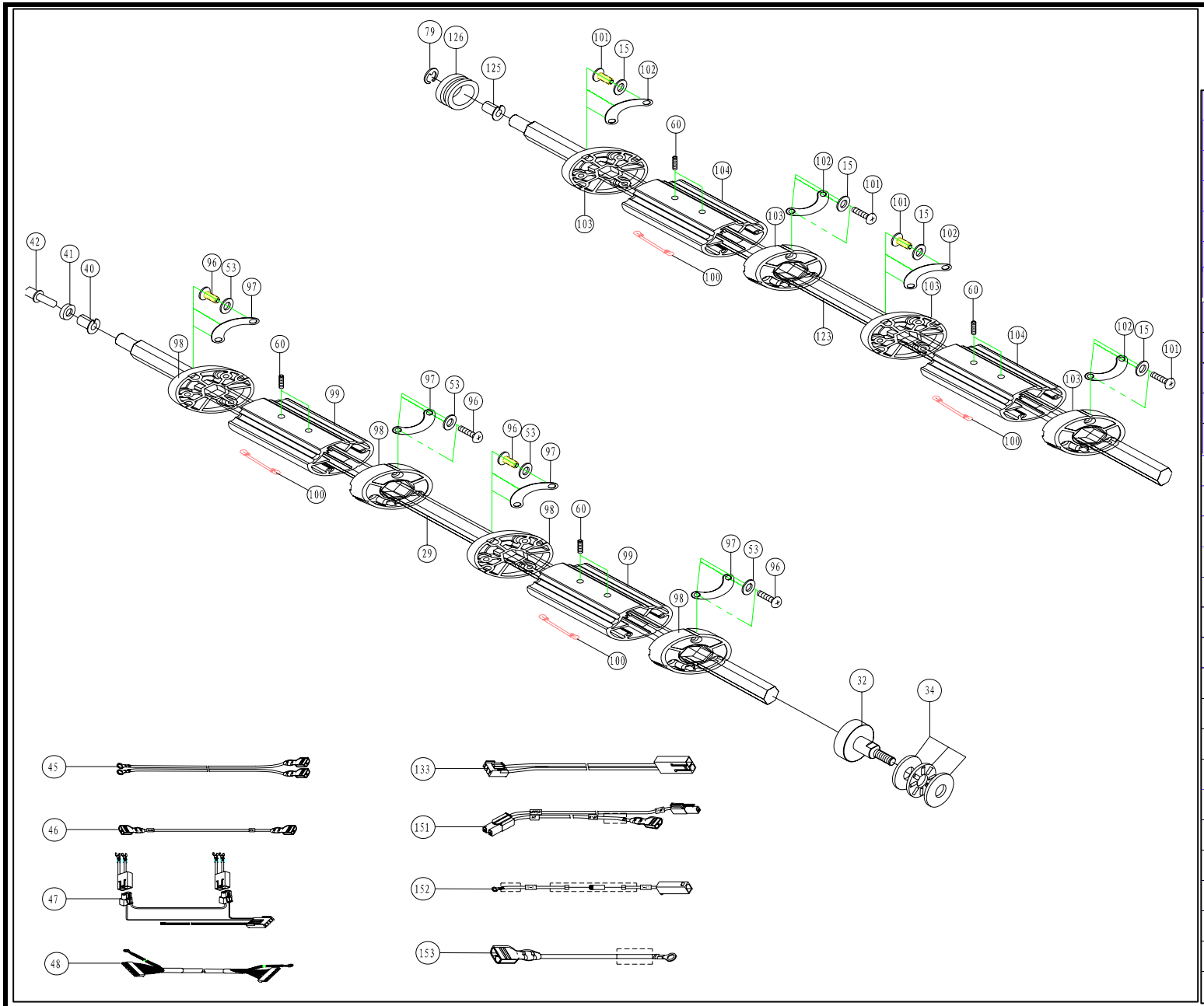
32	MBC04006D2	SCREW-BH
28	147LR4019A	RUBBER-SPONGE
10	141LR4113A	BRACKET-BASE
85	112004001D	NUT(六角螺母)
77	BHE06020D2	BOLT（六角螺栓）M6*20
76	WSB06015D2	WASHER-SPRING（弹性垫圈）Ø6.1*1.5
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
22	141LR4154A	PLATE-BASE(EU2)
19	21000S029A	MOTOR-MAIN 36V 60W 75:1
18	23200X001A	SUPPORT-BRACKET PCB
17	350LR3038A	PCB-MAIN(主PCB)
16	MBC05018D2	SCREW BH(十字槽盘头螺钉) M5*18
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T
14	013LR3002Q	FRAME-CUTTER(支撑)
13	MBC04008D2	SCREW BH M4*8
12	34000S010A	POWER-TRANSFORMER(变压器)
11	013LR2118A	FRAME-BASE
10	23300X008A	CABLE GRAND(电缆固定头)
9	365LR4004A	SWITCH-FOOT ASS'Y(脚踏开关)
8	BHE08065D2	BOLT M8*65
7	WSB08016D2	WASHER-SPRING
6	212LR1011A	STAND-CENTER
5	BHE08015D2	BOLT M8*15
4	212LR1012A	STAND-FRAME(支腿)
3	WSB13038D2	WASHER-SPRING(弹簧垫片）Ø13.2*3.8
2	13500X006A	CASTER-STAND 2（脚轮）
1	13500X005A	CASTER-STAND 1（刹车脚轮）

Frame, Roller, Shaft,Front Table



160	NHB03024D2	NUT
159	023LR3003A	KNOB-CUTTER,C
158	MPC03006D2	SCREW-PH
157	213LR4001A	CUTTER-CROSS
156	138LR4001A	SPRING-CROSS
155	140LR3001A	HOLDER-CUTTER,C
154	013LR3002B	FRAME-CUTTER
141	133LR2045A	ROLLER-LAMI
140	223LR2003A	HEATER-ASS'Y
139	021LR3004A	CASE-SENSOR,LO
138	021LR3003A	CASE-SENSOR,UP
137	381LR4027B	SENSOR-ASS'Y
136	013LR2012B	FRAME-SENSOR
124	015LR3008B	BAR-IDLE,UP
109	111LR4006A	BOLT-GUIDE(方头螺栓)
108	023LR4002A	KNOB-BOLT,GUIDE(旋钮)
107	145LR3001A	GUIDE-DOCUMENT(导向滑块)
95	36400X002B	SWITCH-MAIN（主开关）
94	23300X001A	BUSHING-CORD,EU（电源线扣）
93	011LR2003A	COVER-REAR
86	MBC04018D2	SCREW BH（十字槽盘头螺钉）
70	013LR2112A	FRAME-R
65	MBC03006D2	SCREW BH(十字槽盘头螺钉）M3*6
51	12200X032A	DU BUSH(无油润滑轴承)FLANGE 12*10
50	013LR2111A	FRAME-L
44-2	380CR4004A	POWER-CORD,CUL AC120V 15A
44-1	380CR4007A	POWER-CORD,UK AC240V 13A
44	380CR4001A	POWER-CORD,EU AC230V 16A
43	013LR2117D	FRAME-MIDDLE
28	120LR3035D	SHAFT-CAM(凸轮杆)
27	133LR2030A	ROLLER-LAMI Ø95 CROWN:0.4
26	122LR4100A	BUSH-ROLLER,LAMI UP（上压膜轴套）
25	013LR2119A	FRAME-FRONT
24	12200X012A	DU BUSH FLANGE 40*25
23	122LR4008A	BUSH-ROLLER LAMI LO
20	014LR1003B	TABLE-FRONT

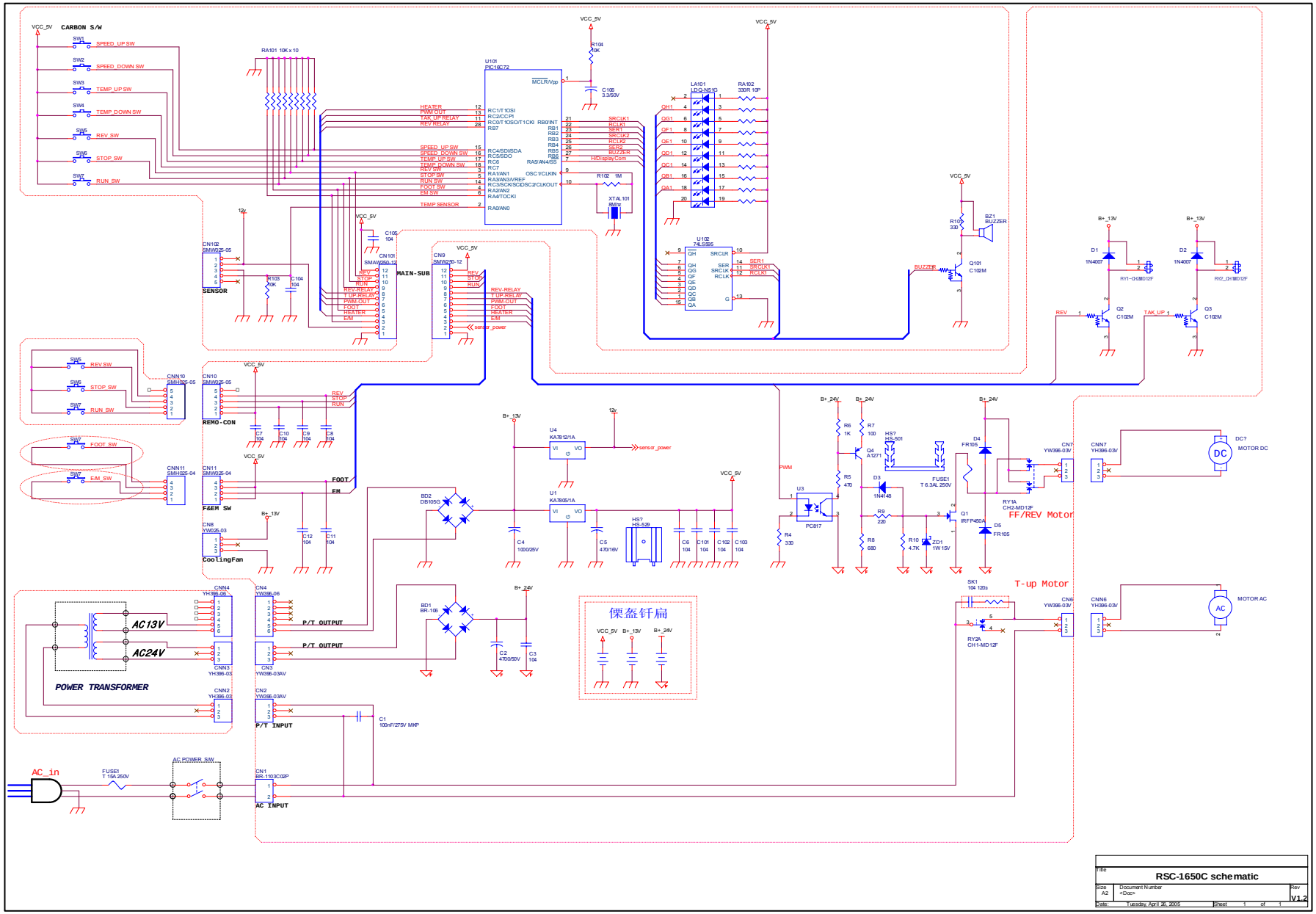
Wire and Film Shafts



153	381LR4055A	WIRE-UP HEATER2,EU
152	381LR4036C	WIRE-T.FUSE UP
151	381LR4030A	WIRE-UP HEATER,EU
133	381LR4005A	WIRE-MOTOR
126	143LR3001A	SUPPORTER-SHAFT,LO
125	12200X009A	DU BUSH
123	120LR3004B	SHAFT-FILM,LO
104	013LR3023A	3" FILM CORE HOUSING
103	021LR3009A	3" FILM CORE COVER
102	141LR4070A	3"FILM CORE SUPPORT PLATE
101	MBC05030D2	SCREW BH（十字槽盘头螺钉）M5*30
100	147CR4003A	SILICON RUBBER Φ7*160
99	013LR3022A	2" FILM CORE HOUSING
98	021LR3008A	2" FILM CORE COVER
97	141LR4069A	2"FILM CORE SUPPORT PLATE
96	MBC04025D2	SCREW BH（十字槽盘头螺钉）M4*25
79	RE001000C8	E-RING
60	SKE05015B6	SCREW-SET（内六角紧定螺栓） M5*15
53	WSB04010D2	WASHER-SPRING Ø4.1*1.0T
48	381LR4008A	WIRE-MAIN(主线)
47	381LR4083A	WIRE-EMER/MOTOR(开关&应急电机线)
46	381LR4020D	WIRE-FUSE,EU（保险丝线）
45	381LR4013C	WIRE-POWER S/W,EU（电源线）
42	RIV05013E8	BRINDER RIVET Φ5*13
41	WPB05030H8	WASHER-PLAIN 3T*Φ11.8*Φ5
40	12200X004A	DU BUSH（无油润滑轴承）FLANGE 10*
34	12200X022A	BEARING-RADIAL TRUST Ø15*28
32	140LR4040A	HOLDER-SHAFT T（轴座）
29	120LR4002B	SHAFT-TAKE UP
15	WSB05013D2	WASHER-SPRING Ø5.1*1.3T

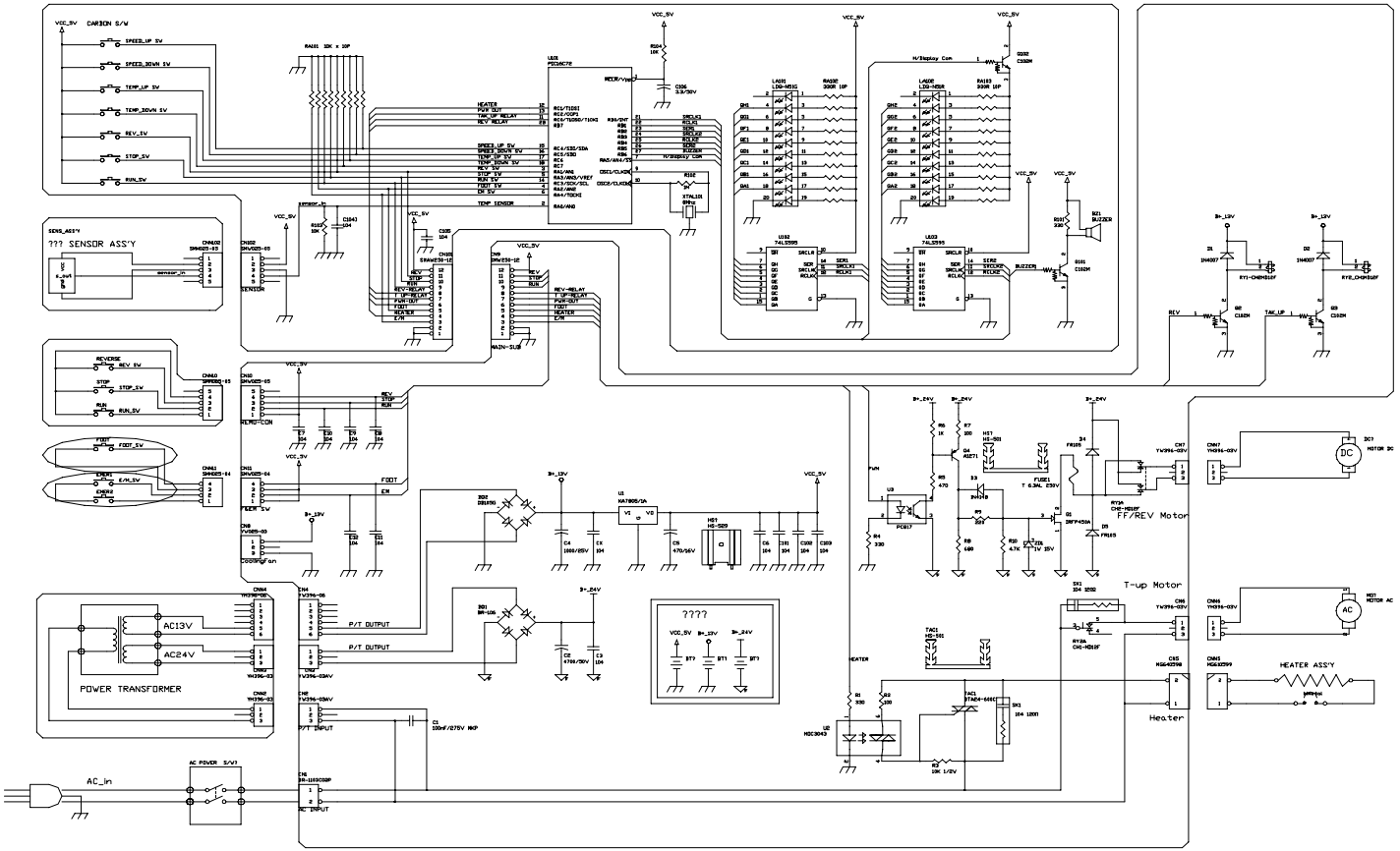
8. RSC-1650LS / LSH Wire Diagram

RSC-1650LS Wire Diagram



RSC-1650LSH Wire Diagram

REV. NO.	DATE	DESCRIPTION OF REVISION	DRA.BY	CH.BY	APP.BY
REV.NO	REV.-DATE	DESCRIPTION-OF-REVISION	DRA.BY	CH.BY	APP.BY
REV.NO	REV.-DATE	DESCRIPTION-OF-REVISION	DRA.BY	CH.BY	APP.BY
REV.NO	REV.-DATE	DESCRIPTION-OF-REVISION	DRA.BY	CH.BY	APP.BY
REV.NO	REV.-DATE	DESCRIPTION-OF-REVISION	DRA.BY	CH.BY	APP.BY



NO	PART-NO	DESCRIPTION	MATERIAL	Q'TY	COLOR/FINISH	REMARK
NO	PART-NO	DESCRIPTION	MATERIAL	Q'TY	COLOR/FINISH	REMARK
NO	PART-NO	DESCRIPTION	MATERIAL	Q'TY	COLOR/FINISH	REMARK

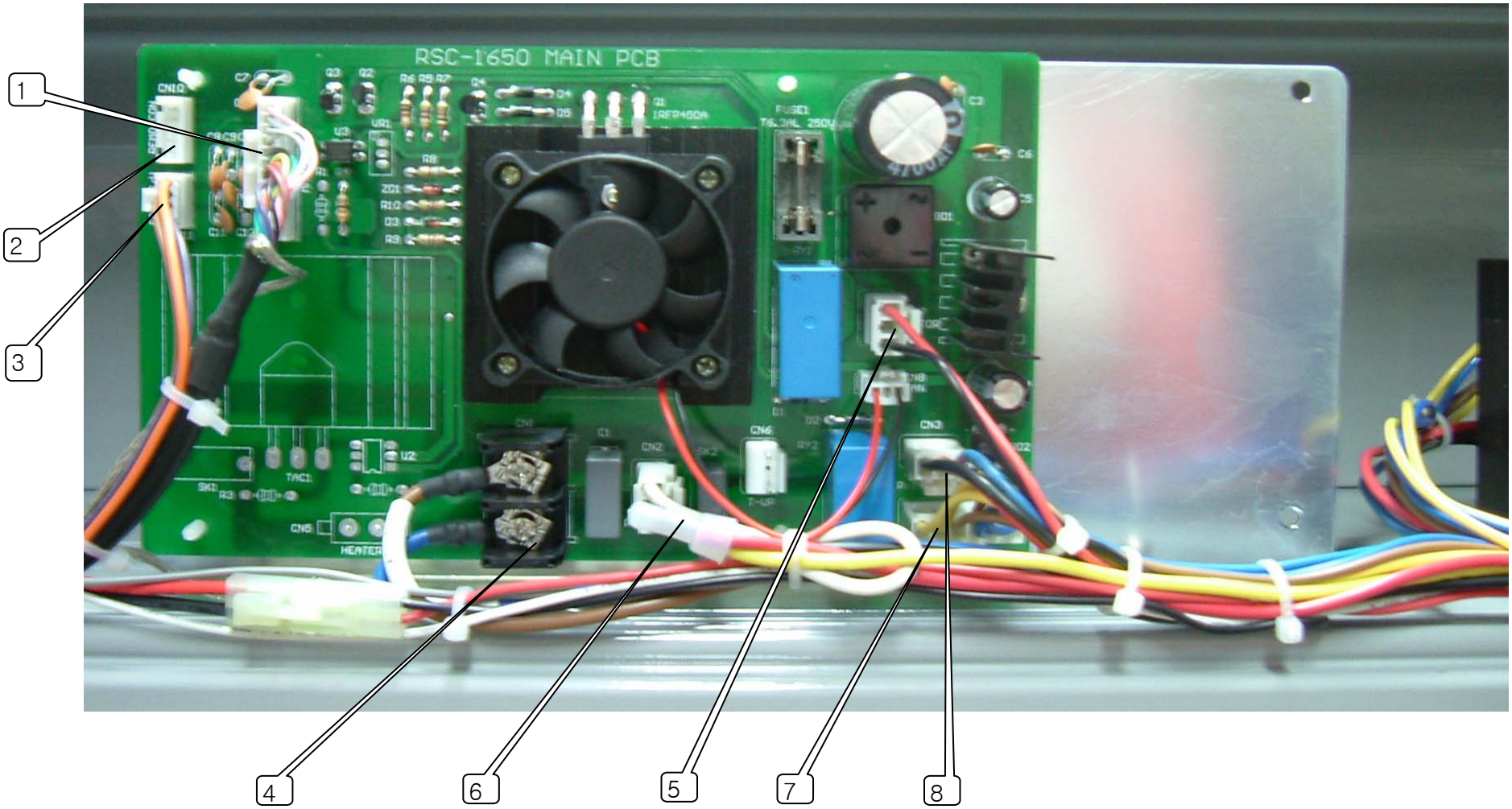
NO	PART NO	DESCRIPTION	MATERIAL	Q'TY	COLOR/FINISH	REMARK

⊗ 1st GRADE FATAL DEFECT	0	⊕ 3rd GRADE MEDIUM DEFECT	6	T.I.Q	
⊗ 2nd GRADE FATAL DEFECT	0	⊖ 4th GRADE SLIGHTLY DEFECT	0	⊕	
IMPORTANCE OF QUALITY	TOTAL	IMPORTANCE OF QUALITY	TOTAL		

TOLERANCE		DRAWN	CHECKED	APPROVED	UNIT	SCALE	MODEL NAME	
~ 6	0.08	DRA-BY	CH-BY	APP-BY	mm	SCALE	PART NAME	RSC-1650H
7 ~ 30	0.1				3RD ANGLE PROJ.		PART NO.	
31 ~ 120	0.2							
121 ~ 300	0.4							
301 ~ 600	0.6							
601 ~ 1200	0.8	DRA-DATE	CH-DATE	APP-DATE				

Royal Sovereign

< RSC-1650LS MAIN PCB Layout >



<connect part>

1.WIRE MAIN :above photo① →connect SUB PCB①.

2.WIRE REMOCON:above photo2 →connect REMOCON S/W.

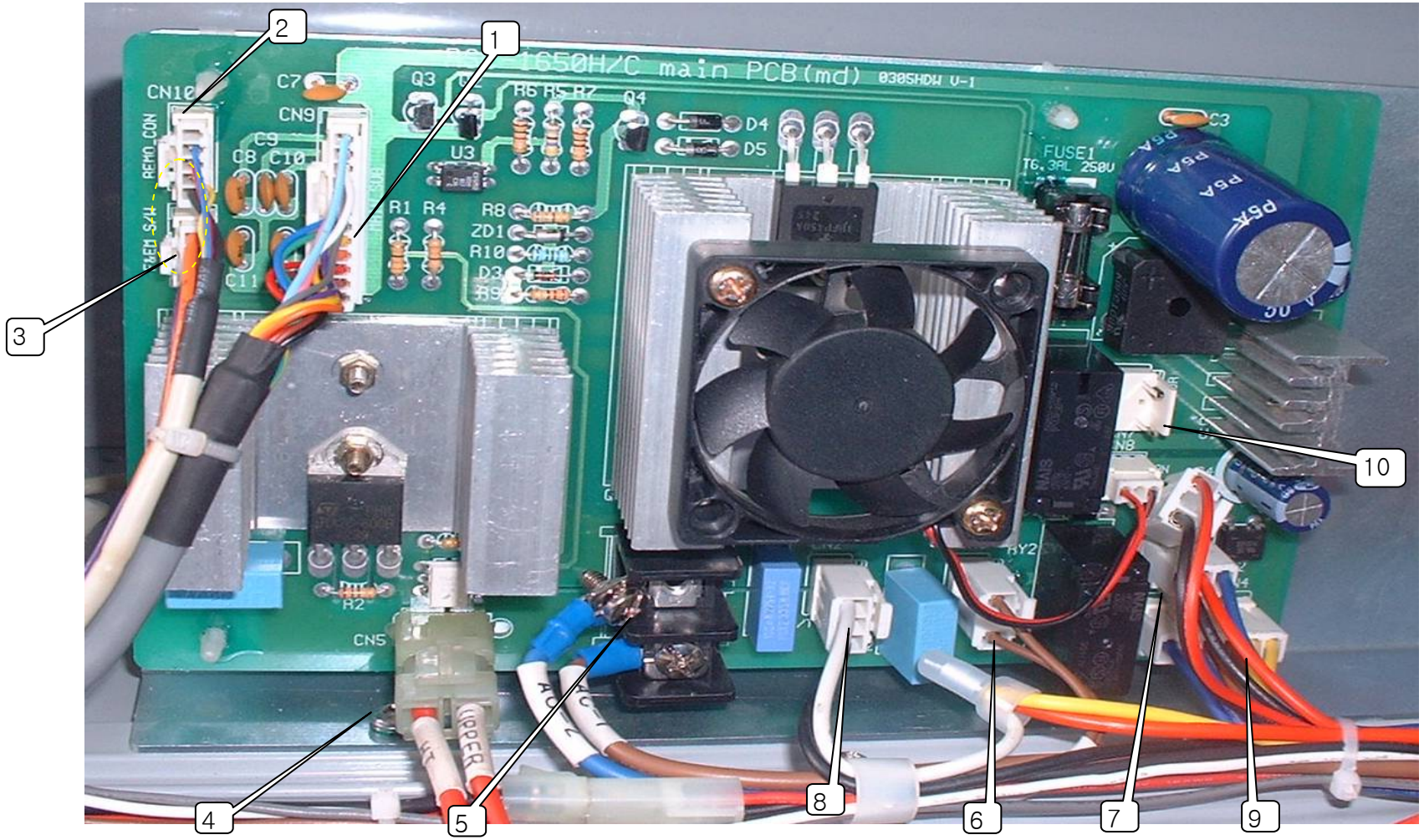
3.WIRE EMER:above photo3 →connect FOOT&EMER S/W.

4.WIRE POWER : above photo4 →connect FRAME-L S/W MAIN

5.WIRE MOTOR : above photo5 →connect DC MOTOR.

6.above photo's 6/7/8 wire in POWER TRANSFORMER

< RSC-1650LSH MAIN PCB Layout >



<connect part>

1.WIRE MAIN :above photo① →connect SUB PCB①.

2.WIRE REMOCON:above photo2 →connect REMOCON S/W.

3.WIRE EMER:above photo3 →connect FOOT&EMER S/W.

4.WIRE UP HEATER :above photo4 →connect with
FRAME-R HEATER UP BIMETAL,

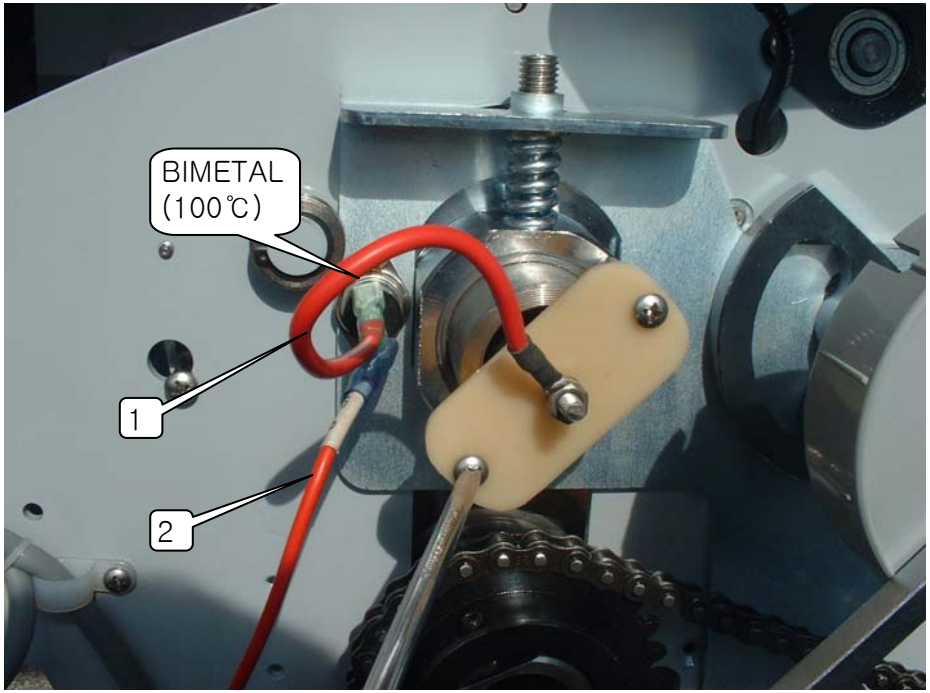
5.WIRE POWER : above photo6 →connect FRAME-L S/W MAIN

6.WIRE TAKE UP : above photo6 →connect AC MOTOR.

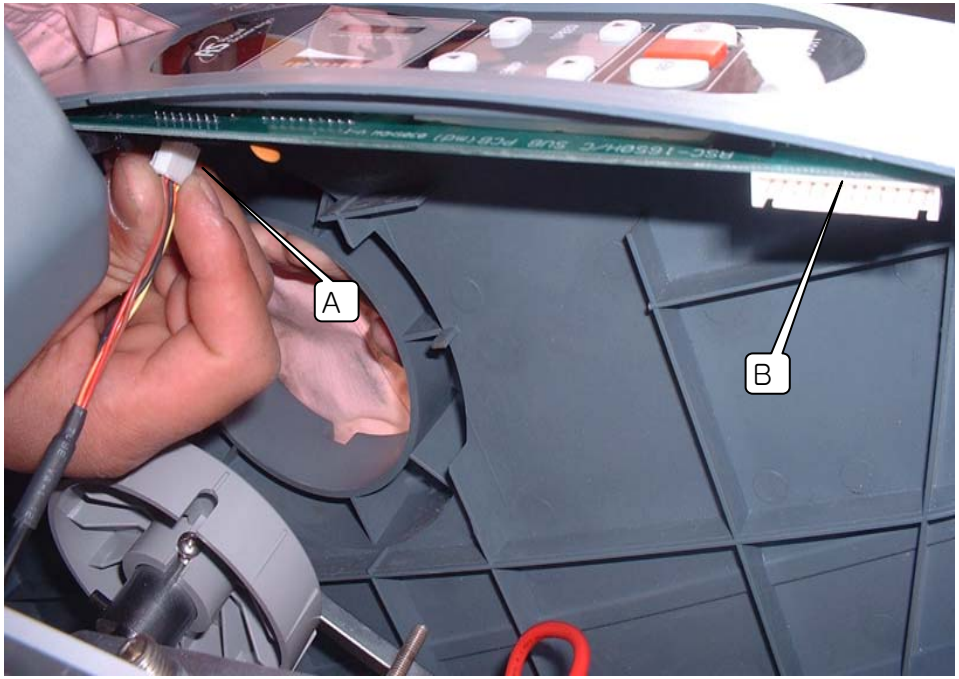
7.above photo's 7/8/9 wire in POWER TRANSFORMER

10.WIRE MOTOR : above photo10 →connect DC MOTOR.

<FRAME-R HEATER Layout>



<SUB PCB>



<connect part>(only RSC-1650LSH)

1.WIRE-UP HEATER 2 : connect above photo"B" BIMETAL and HEATER.

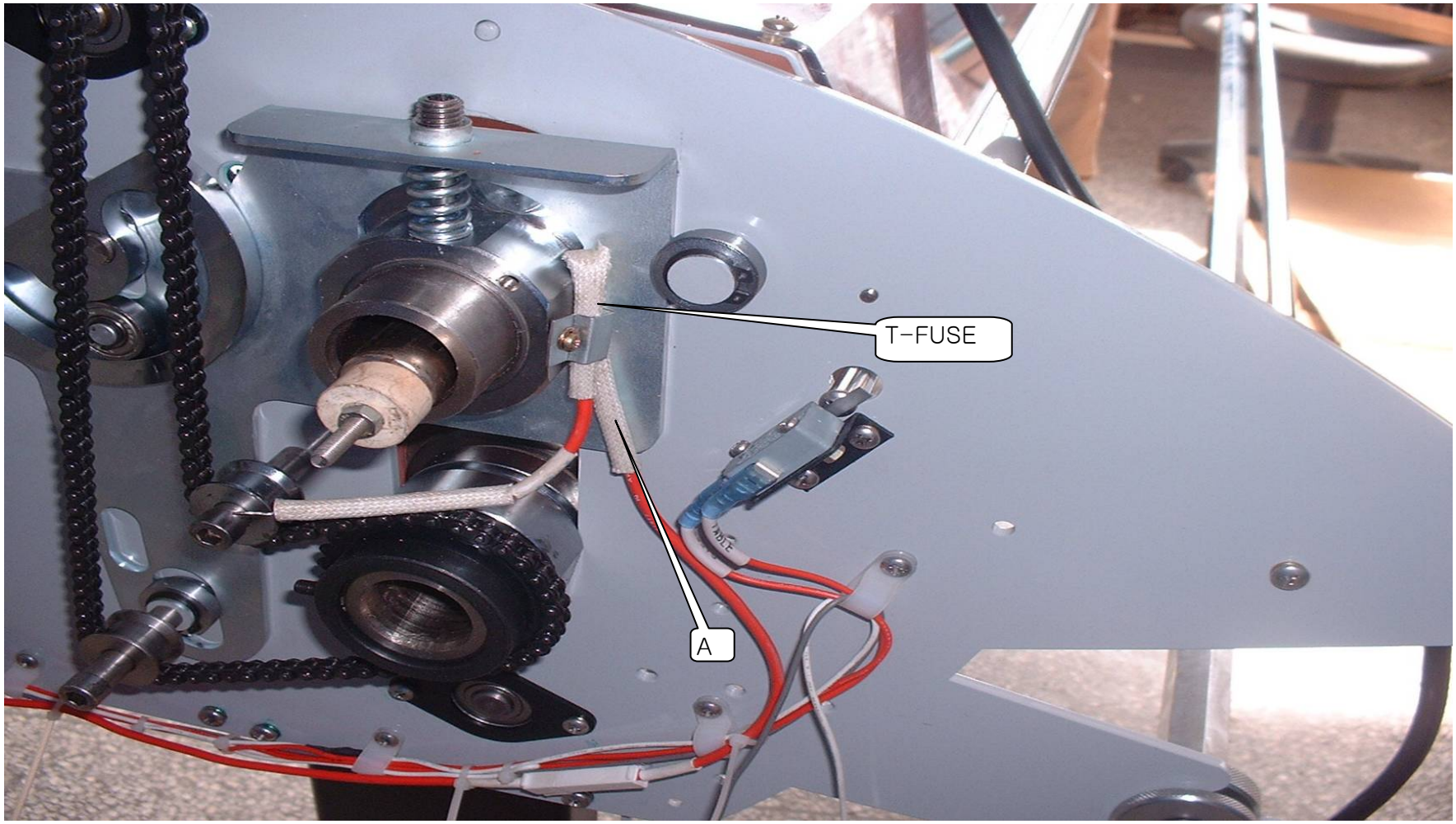
2.WIRE-LOW HEATER 2 : connect above photo" A" BIMETAL and HEATER.

<connect part>

A. WIRE-SENSOR : connect temperature sensor

B.WIRE-MAIN : connect the main pcb

< FRAME-L HEATER Layout>



<connect part> <connect part>

A. WIRE T/FUSE, UP : connect with above photo A WIRE UP HEATER,Eu and HEATER.(only RSC-1650LSH)